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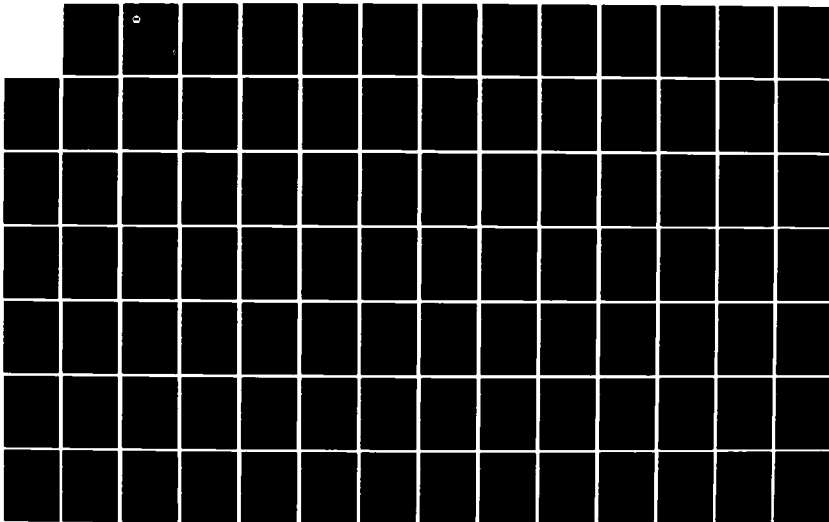
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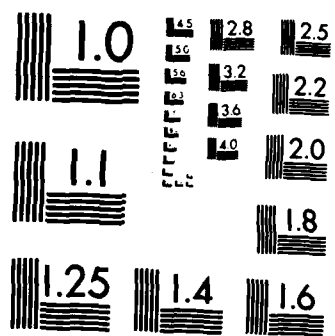
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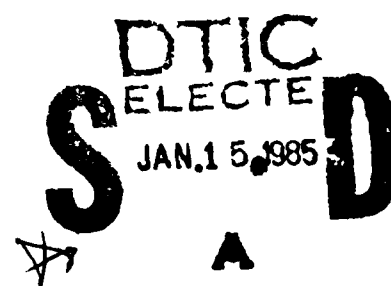


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BIBLIOGRAPHY OF SOVIET LASER DEVELOPMENTS

No. 66

JULY - AUGUST 1983

Date of Report

July 24, 1984

Vice Director for Foreign Intelligence
Defense Intelligence Agency

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20. ABSTRACT <i>This book group is the 66th</i> This is the Soviet Laser Bibliography for July-August 1983, and is No. 66 in a continuing series on Soviet laser developments. The coverage includes basic research on solid state, liquid, gas, and chemical lasers; components; nonlinear optics; spectroscopy of laser materials; ultrashort pulse generation; crystal growing; theoretical aspects of advanced lasers; and general laser theory. Laser applications are listed under biological effects; communications; beam propagation; adaptive optics; computer technology; holography; laser-induced chemical reactions; measurement of laser parameters; laser measurement applications; laser-excited optical effects; laser spectroscopy, beam-target interaction; and plasma generation and diagnostics. <i>←</i>		

Introduction

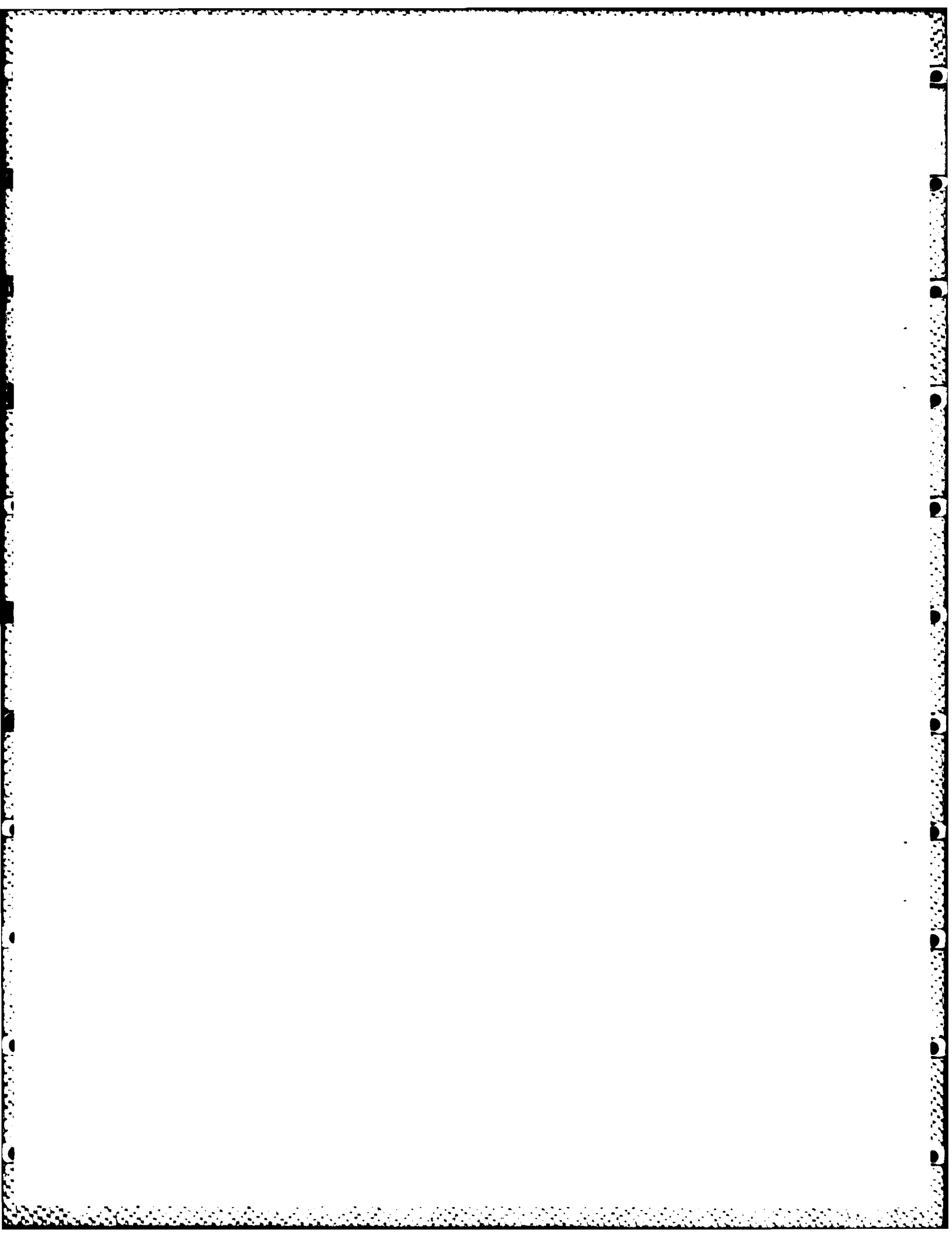
This bibliography has been compiled under an interagency agreement as a continuing effort to document current Soviet-bloc developments in the quantum electronics field. The period covered is July-August 1983, and includes all significant laser-related articles received by us in that interval. The bulk of the entries come from the approximately 30 periodicals which are known to publish the most significant findings in Soviet laser technology. Citations from the Russian Reference Journals are also included. Laser items from the popular or semipopular press are generally omitted.

For convenience we have abbreviated frequently cited source names; a source abbreviations list and an author index are included. All sources cited with no parenthetical notation are available at the Library of Congress. A parenthetical entry (RZh, KL) indicates the secondary source in which the citation was found as a bibliographic entry or abstract, but for which the original source is not currently available at the Library. The authors' affiliations are indicated by the numbers in parentheses following the authors' names in the text and are listed in an author affiliations list. New affiliations are assigned a new number and are added to a cumulative list which includes all affiliations from 1969 to the present. Only those affiliations which appear in this issue are listed in this issue's author affiliations list.

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2. Inorganic Liquids

C. GAS LASERS

1. Simple Mixtures

a. He-Ne

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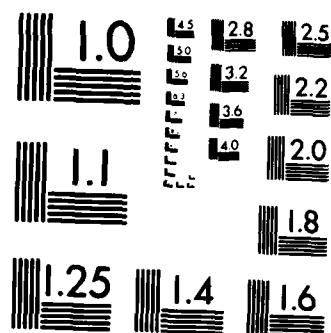
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758. Nikolayev, V.M. (29). Nelineynaya optika. Uchebnoye posobiye (Nonlinear optics. Textbook). Leningradskiy politekhnicheskii institut. Leningrad, 1982, 83 p. (KL, 27/83, 24053)
759. Noskov, M.M. (421). Opticheskiye i magnetoopticheskiye svoystva metallov (Optical and magnetooptic properties of metals). Edited by I.N. Shklyarevskiy (421). Institut fiziki metallov Ural'skogo nauchnogo tsentra AN SSSR. Sverdlovsk, 1983, 220 p.

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IV. SOURCE ABBREVIATIONS

(CIRC Codens)

DAN	(DANKA)	Akademiya nauk SSSR. Doklady
DAN B	(DBLRA)	Akademiya nauk Belorusskoy SSR. Doklady
DBAN	(CRABA)	Bulgarska akademiya na naukite. Doklady
DNR	(DERUB)	Deponirovannyye nauchnyye raboty
EOM	(EOBMA)	Elektronnaya obrabotka materialov
ETP	(EXPRA)	Experimentelle Technik der Physik
FAiO	(IFAOA)	Akademiya nauk SSSR. Izvestiya. Fizika atmosfery i okeana
FGiV	(FGVZA)	Fizika gorenija i vzryva
FikHOM	(FKOMA)	Fizika i khimiya obrabotki materialov
FikHS	(FKSTD)	Fizika i khimiya stekla
FM	(FNMKA)	Finommechanika, mikrotehnika [Hungary]
FTP	(FTPPA)	Fizika i tekhnika poluprovodnikov
FTT	(FTVTA)	Fizika tverdogo tela
IAN Arm	(IAAFA)	Akademiya nauk Armyanskoy SSR. Izvestiya. Fizika
IAN Est	(ETFMB)	Akademiya nauk Estonskoy SSR. Izvestiya. Fizika, matematika
IAN Fiz	(IANFA)	Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya
IAN Tadzh	(IATOA)	Akademiya nauk Tadzhikskoy SSR. Izvestiya. Otdeleniya fiziko-matematicheskikh i geologkhimicheskikh nauk
IAN Uz	(IUZFA)	Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk.
I-FZh	(INFZA)	Inzhenerno-fizicheskiy zhurnal
IT	(IZTEA)	Izmeritel'naya tekhnika
IVUZ Priboro	(IVUBA)	Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye
IVUZ Radioelek	(IVUZB)	Izvestiya vysshikh uchebnykh zavedeniy. Radioelektronika
IVUZ Radiofiz	(IVYRA)	Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika
JMO	(JMKOA)	Jemna mehanika a optika
KE	(KVEKA)	Kvantovaya elektronika
KL	(KNLTA)	Knizhnaya letopis'
KLD	(-----)	Knizhnaya letopis'. Dopolnitel'nyy vypusk. Avtoreferaty dissertatsii

Kristal	(KRISA)	Kristallografiya
KSpF	(KRSFA)	Kratkiye soobshcheniya po fizike
NM	(IVNMA)	Akademiya nauk SSSR. Izvestiya. Neorganicheskiye materialy
OiS	(OPSPA)	Optika i spektroskopiya
OMP	(OPMPA)	Optiko-mekhanicheskaya promyshlennost'
Opt app	(OPAPB)	Optica applicata [Poland]
Otkr izobr	(OIPOB)	Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki
Poverkh	(-----)	Poverkhnost'. Fizika, khimiya, mekhanika
PSS	(PSSAB) (PSSBB)	Physica Status Solidi (A). Applied Research (B). Basic Research
PTE	(PRTEA)	Pribory i tekhnika eksperimenta
RiE	(RAELA)	Radiotekhnika i elektronika
RZhF	(RZFZA)	Referativnyy zhurnal. Fizika
RZhR	(RARAB)	Referativnyy zhurnal. Radiotekhnika
Sb1	sbornik	Optoelektronika, kvantovaya elektronika i prikladnaya optika. Institut kibernetiki AN GruzSSR. Tbilisi, Metsniyereba, 1983.
Sb2		Elektronnyye yavleniya v tverdykh telakh i gasakh. Azerbaydzhanskiy GU. Tematicheskii sbornik nauchnykh trudov. Baku, 1982.
Sb3		Stolknoveniya chastits s yadrami, atomami i molekulami. Baku, 1982.
Sb4		Matematicheskoye modelirovaniye fizicheskikh protsessov. Moskva, 1982.
Sb5		Vsesoyuznaya konferentsiya po inzhenernym problemam termoyadernykh reaktorov. 2nd. Leningrad, 23-25 June 1981. Doklady. Vol. 3. Leningrad, 1982.
Sb6		Fundamental'nyye osnovy opticheskoy pamyati i sredy, no. 14, Kiyev, 1983.
Sb7		Wissenschaftliche Zeitschrift der Friedrich- Schiller-Universitat Jena. Mathematisch- naturwissenschaftliche Reihe, no. 1, 1983.
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Sb9		Vsesoyuznaya konferentsiya po fizicheskoy khimii i elektrokhemii ionnykh rasplavov i tverdykh elektrolitov. 8th. Leningrad, 11-13 Oct 1983. Tezisy dokladov. Vol. 1, Fizicheskaya khimiya ionnykh rasplavov. Leningrad, Nauka, 1983.

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- Sb20 Matematicheskoye modelirovaniye fizicheskikh protsessov. Moskva, 1982.
- Sb21 Nauchno-metodicheskiye statii po fizike, no. 9, Moskva, 1982.
- Sb22 Nauchnaya konferentsiya molodykh uchenykh Instituta khimicheskikh nauk AN KasSSR, posvyashchennoy XIX S"yezdu VLKSM, Alma-Ata, 13 Apr 1982. Trudy. Deposit at KazNIINTI, no. 418Ka-D83, 10 Mar 1983.
- Sb23 Vsesoyuznaya konferentsiya po izmeritel'nyim informatsionnym sistemam IIS-81, L'vov, 26-29 Oct 81. Materialy. Part 1. L'vov, 1982.
- Sb24 Konferentsiya molodykh uchenykh Fiziko-mekhanicheskogo instituta An Ukr SSR. 10th. L'vov, 12-16 Oct 81. Materialy. Sektsiya fiziko-khimicheskoy mekhaniki materialov. Deposit at VINITI, no. 1948-83, 12 Apr 83.
- Sb25 Magnitnyye, elektricheskoye i rezonansnyye svoystva magnitodielektrov. Institut fiziki SOAN. Krasnoyarsk, 1982.
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SCF	(SCEFA)	Studii si cercetari de fizica
Tr1	trudy	Fizicheskii institut AN SSSR. Trudy, no. 142, 1983.
Tr2		Kiyevskiy politekhnicheskii institut. Vestnik. Seriya radioelektroniki, no. 19, 1982.
Tr3		Radiotekhnicheskii institut AN SSSR. Trudy, no. 44, 1982.
Tr4		Kiyevskiy politekhnicheskii institut. Vestnik. Seriya radioelektroniki, no. 20, 1983.
Tr5		Leningradskiy elektrotekhnicheskii institut. Izvestiya, no. 328, 1983.
TVKE	(TVKED)	Tochnoye vremya i kvantovaya elektronika
UFN	(UFNAA)	Uspekhi fizicheskoy khimii
UFZh	(UFIZA)	Ukrainskiy fizicheskii zhurnal
VMU	(VMUFA)	Moskovskiy universitet. Vestnik. Fizika, astronomiya
ZhETF	(ZETFA)	Zhurnal eksperimental'noy i teoreticheskoy fizika
ZhETF P	(ZEPFA)	Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZFKh	(ZFKHA)	Zhurnal fizicheskoy khimii
ZhNKh	(ZNOKA)	Zhurnal neorganicheskoy khimii
ZhPMTF	(ZPMFA)	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki
ZhPS	(ZPSBA)	Zhurnal prikladnoy spektroskopii
ZhTF	(ZTEFA)	Zhurnal tekhnicheskoy fiziki
ZhTF P	(PZTFD)	Pis'ma v Zhurnal tekhnicheskoy fiziki
ZhVMMF	(ZVMFA)	Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki
ZL	(ZVDLA)	Zavodskaya laboratoriya

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NS. Non-Soviet

0. Affiliation not given
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4. Physicotechnical Institute im Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut im Ioffe AN SSSR).
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29. Leningrad Polytechnic Institute (Leningradskiy politekhnicheskiy institut).
34. Khar'kov State University (Khar'kovskiy GU).
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65. Institute of Problems of Physics, AN SSSR (Institut fizicheskikh problem AN SSSR).
66. Institute of Solid State Physics, AN SSSR (Institut fiziki tverdogo tela AN SSSR).
67. Institute of Physics of Chemistry, AN SSSR (Institut khimicheskoy fiziki AN SSSR).
71. Institute of Applied Mathematics, AN SSSR (Institut prikladnoy matematiki AN SSSR).
72. Institute of Spectroscopy, AN SSSR (Institut spektroskopii AN SSSR).
73. Institute of Theoretical Physics im Landau, AN SSSR (Institut teoreticheskoy fiziki im Landau AN SSSR).
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75. Institute of Automation and Electronic Measurements, Siberian Branch AN SSSR (Institut avtomatiki i elektrometrii SOAN).
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218. Second Moscow State Medical Institute im Pirogov (Vtoroy Moskovskiy meditsinskiy institut im Pirogova).
220. Institute of Experimental Meteorology (Institut eksperimental'noy meteorologii).
226. Leningrad Branch of the Mathematical Institute, AN SSSR (Leningradskoye otdeleniye Matematicheskogo instituta AN SSSR).
231. Scientific Research Institute of Motion Pictures and Photography (NI kinofotoinstitut).
243. Radio Engineering Institute, AN SSSR (Radiotekhnicheskii institut AN SSSR).
247. Scientific Research Institute of Electrophysical Equipment im Yefremov, Leningrad (NII elektrofizicheskoy apparatury im Yefremova).
252. Leningrad Institute of Nuclear Physics, AN SSSR (Leningradskiy institut yadernoy fiziki AN SSSR).
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256. Far Eastern State University, Vladivostok (Dal'nevostochnyy GU).
260. Kazan' Institute of Chemical Technology im Kirov (Kazanskiy khimiko-tekhnologicheskii institut im Kirova).
276. Institute of Physics of the Earth im Shmidt, AN SSSR (Institut fiziki Zemli im Shmidta AN SSSR).
283. Institute of Physics of Metals, AN UkrSSR, Kiev (Institut metallofiziki AN UkrSSR).
287. Institute of Physical Chemistry, AN SSSR (Institut fizicheskoy khimii AN SSSR).
299. Institute of Electronics, AN BSSR (Institut elektroniki AN BSSR).
301. All Union Scientific Research Institute of Luminophors and High Purity Substances (VNII lyuminoforov i osobo chistykh veshchestv).
312. Kiev Institute of Civil Aviation Engineers (Kiyevskiy institut inzhenerov grazhdanskoy aviatsii).
332. Frunze Polytechnic Institute (Frunzinskiy politekhnicheskii institut).
334. Scientific Research Institute of Applied Physics Problems at Byelorussian State University (NII prikladnykh fizicheskikh problem pri Belorusskom GU).
337. Computer Center, AN SSSR, Moscow (Vychislitel'nyy tsentr AN SSSR).
354. Moscow Medical Stomatological Institute (Moskovskiy meditsinskiy stomatologicheskii institut).
355. All Union Correspondence Institute of Mechanical Engineering (Vsesoyuznyy zaachnyy mashinostroitel'nyy institut).
379. Gomel' State University (Gomel'skiy GU).

411. Krasnoyarsk State University (Krasnoyarskiy GU).
417. All Union Scientific Research Institute of Eye Diseases (VNII glaznykh bolezney).
421. Institute of Physics of Metals, Ural Scientific Center, AN SSSR, Sverdlovsk (Institut fiziki metallov Ural'skogo nauchnogo tsentra AN SSSR).
424. Voroshilovgrad Mechanical Engineering Institute (Voroshilovgradskiy mashinostroitel'nyy institut).
426. Institute of Applied Physics, AN SSSR, Gor'kiy (Institut prikladnoy fiziki AN SSSR).
441. Scientific Research Institute of Physics of Leningrad State University (NII fiziki Leningradskogo GU).
460. Chelyabinsk Polytechnic Institute (Chelyabinskiy politekhnicheskiy institut).
466. Institute of High-Current Electronics, Siberian Branch, AN SSSR, Tomsk (Institut sil'notochnoy elektroniki SOAN).
490. Institute of Physics, AN GruzSSR (Institut fiziki AN GruzSSR).
491. Grodno State University (Grodnenskiy GU).
492. Institute of Physics AN EstSSR (Institut fiziki AN EstSSR).
512. Institute of General and Inorganic Chemistry AN UkrSSR, Kiev (Institut obshchey i neorganicheskoy khimii AN UkrSSR).
534. Institute of Physics, Dagestan Branch, AN SSSR, Makhachkala (Institut fiziki Dagestanskogo filiala AN SSSR).
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548. State Scientific Research Institute of the Chemistry and Technology of Hetero-Organic Compounds, Moscow (Gos NII khimii i tekhnologii elementoorganicheskikh soyedineniy).
592. Central Scientific Research Institute of Stomatology (TsNII stomatologii).
598. Kuybyshev State University (Kuybyshevskiy GU).
606. Kiev Scientific Research Institute of Otolaryngology im Kolomiychenko (Kiyevskiy NII otolaringologii im Kolomiychenko).
608. Mozyr State Pedagogical Institute (Mozyrskiy gos pedagogicheskiy institut).
611. Khar'kov Medical Institute (Khar'kovskiy meditsinskiy institut).
614. Scientific Research Center for Industrial Lasers, AN SSSR, Troitsk (NI tsentr po tekhnologicheskim lazeram AN SSSR).
652. Institute of Electrochemistry, Ural Scientific Center, AN SSSR, Sverdlovsk (Institut elektrokhimii Ural'skogo nauchnogo tsentra AN SSSR).
658. Institute of General Pathology and Pathological Physiology, AMN SSSR, Moscow (Institut obshchey patologii i patologicheskoy fiziologii AMN SSSR).
670. Central Scientific Research Institute of Dermatology and Venereology, Moscow (Tsentral'nyy NI kozhno-venerologicheskiy institut).
671. All Union Scientific Center of Surgery, AMN SSSR, Moscow (Vses nauchnyy tsentr khirurgii AMN SSSR).
713. All-Union Scientific Research Technological Institute of Prescription Antibiotics and Enzymes (VNI tekhnologicheskiy institute antibiotikov i fermentov meditsinskogo naznacheniya, Leningrad).
729. Kiev Medical Institute (Kiyevskiy meditsinskiy institut).
732. Special Design-Engineering Bureau of Physics Instrument Manufacture With Experimental Production, Institute of Physics, AN UkrSSR, Kiev (Spetsial'noye konstruktorsko-tekhnicheskoye byuro fizicheskogo priborostroyeniya s opytным proizvodstvom Instituta fizika AN UkrSSR).

- 734. Institute of General Physics, AN SSSR (Institut obshchey fiziki AN SSSR).
- 736. L'vov Institute of Forestry Engineering (L'vovskiy lesotekhnicheskiy institut).
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- 756. Institute of Geology, Komi Branch, AN SSSR (Institut geologii Komi filiala AN SSSR).
- 757. Ukrainian Scientific Research Institute of Tools and Instruments (Ukrainskiy NII stankov i instrumentov).
- 759. Scientific Research Institute of Rheumatism, AMN SSSR (NII revmatizma AMN SSSR).

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GES' I A	78	GRUSHKA G G	93	JERZYKIEWICZ A	22
GILEL'S A M	63	GRUZINSKIY V V	10	JUST H	52
GIROGBIANI N R	4	GUBAREV A P	23		
GIZBREKHT A I	9	GUENTHER R	108	K	
GLADUSH G G	102,105	GULAMOV A A	30		
GLAGOLEV S F	76	GULOYANTS A A	43	KABANOV S S	77
GLAZKOV V N	49	GULYAYEV YU V	7,36	KADYRAKUNOV K B	105
GLAZUNOV P YA	42	GURBANOV V P	49	KALACHEV B V	80
GLEBOV L B	103	GUREVICH M YE	88	KALAGIN A P	42
GLEBOVA N N	91	GUREVICH S YU	36	KALANDARISHVILI K G	6
GLONTI SH I	4	GUP'YANOV A N	51	KALAPUSHA A L	33

KALASHNIKOV M P	107,109	KHAYDAROV D V	51	KOLOBASHKIN M V	107
KALASHNIKOV S P	67	KHAYMENOV A P	97	KOLOBRODOV V G	81
KALIN A A	88	KHAZOVA M V	69	KJLOMENSKIY A A	44
KALINOV V S	11,20,21	KHILO N A	30	KOLOMIYETS B T	104
KALITIN S P	3,43	KHILO P A	30	KOMAROV A I	99
KALMYKOV YU K	107	KHIMINETS V V	29	KOMAROV N N	76
KALYUNOV V N	47	KHITROV A L	107	KOMIN A V	107
KAMACH YU E	10,41	KHITROV M YU	99	KOMOLOV V L	104
KAMARZIN A A	2	KHIZHNYAK A I	2,46	KONDRATENKO A M	44
KAMINSKIY A A	2,3,42	KHIZHNYAK S M	16	KONDRATENKO V I	30
KAMKAMIDZE I SH	64	KHLEBNIKOV A G	86	KONDRAT'YEV S N	23
KANDIDOV V P	40	KHODINSKIY A N	46	KONDRAT'YEV V YU	87
KANDIDOVA O V	67	KHOKHLOV V A	102	KONNIKOV S G	6
KAPRALOV V P	12	KHOLODKEVICH S V	93	KONONENKO A G	84
KARAKHANOVA I V	13	KHOLODNYKH A I	32	KONONENKO V G	79
KARASEV B G	12	KHOMENKO A V	28,29	KONOPLEV N A	13
KARASEVA L G	42	KHOMENKO YU M	21	KONOV V I	26,101,102
KARAYEVSKIY S KH	80	KHOMYAK A S	100	KONOVALOV I N	17
KARFIDOV D M	79	KHOPIN V F	51	KONOVALOV S A	74
KARGE H	52	KHOTELASHVILI D K	8	KONOVALOV V A	2
KARINSKIY S S	23	KHOTNYANSKAYA YE B	51	KONSTANTINOV G D	26,63
KARLOV N V	13,14,45,72	KHOTYAINTESEV S N	80	KONSTANTINOV M B	23
	88,89,111	KHOTYAINTESEV S SH	77	KONSTANTINOV N YU	42
KARLOV V P	37	KHOYMANN E (SEE HEUMANN E)		KONSTANTINOVSKAYA T S	4
KARMENYAN A V	39	KHRAMOV V YU	38	KONTOROV M D	52
KARNAUKHOV A A	87	KHRISTOVA S R	26	KONYAYEV V P	5,6
KARNAUKHOV V G	50	KHROMOV A V	76,85	KOPILEVICH YU I	61
KARPEYEV S V	25,59	KHRUTSKIY V K	35	KOPTSIK V A	83
KARPOV O V	110	KHRYAPOV V T	5	KOPYLOVA T N	10
KARPOV S V	92	KHYUPPENEN V P	46	KOPYTIN YU D	55,57
KARPOV S YU	6	KIJEK A	67	KORESHEV S N	23
KARPOV V YA	108	KIREYEVA S A	108	KORNELUK G	22
KARPUKHIN V T	17	KIRICHENKO N A	35,71,88,89	KORNEV V V	52
KARRASH G	82	KIRILENKO YE K	96	KORNIYENKO L S	2,21
KARTASHEV K B	107	KIRILLOV A A	89	KORNIYENKO N YE	32
KARYAKIN A V	100	KIRILLOV A I	111	KOROBV V YE	42
KASATKIN B S	81	KIRILLOV-UGRYUMOV M V	107	KOROLEV I YA	56
KASHIN V V	53	KIRYUKHIN YU B	71	KORONKEVICH V P	76
KASYARUM O P	24	KIRYUKHIN YU I	85	KOROSTELEVA A A	101
KATKOV V F	97	KIRYUNIKOV K V	15	KOROTAYEV N V	22
KATSELAHVILI Z V	8	KISELEV V P	39	KOROTCHENKOV O A	37
KATULIN V A	45	KISELEVA YE S	40	KOROTKOV P A	88,96
KAUNOV A D	36	KISELEVSKIY A L	19	KOROVIN L I	28
KAVKYANOV S I	56	KITAYEV YU I	23	KORSHUNOV I P	52
KAZAK N S	30	KITAYEVA V F	40,41,91	KORSHUNOV O YU	89
KAZAKEVICH V S	14	KLASSEN I F	94	KORZHENEVICH I M	75
KAZAKOV A A	2	KLASSEN N V	13,103	KOSAREV A V	28
KAZAKOVA YE L	48	KLEMENTI T	17	KOSAREV V I	109
KAZANDZHIAN L V	80	KLEMENTOV A D	17	KOSHARSKIY L M	85
KAZANSKIY N L	59	KLENIN V I	61	KOSICHNIK YU V	7
KAZARYAN E M	29	KLEYMAN A S	74	KOSOBURD T P	56
KAZHIDUB A V	12	KLIMENKO I S	80	KOSOVETS YU G	112
KEPRT J	67	KLIMENKO V A	96	KOSSYY I A	15
KERIMOV A A	95	KLIMOV A N	88	KOSTIN B S	56
KERIMOV O M	17	KLINKOVA L A	40	KOSTROMIN YU I	54
KESSLER S	67	KLYUKIN L M	67	KOSTYSHIN M T	24
KEVORKOV A M	4	KMITRIYEV K I	13	KOSTYUK V KH	97
KHABAROV YU I	63	KOBTSEV S M	87	KOTEROV V N	18
KHABIBULLAYEV P K	1,86,110	KOBYL'CHAK V V	28	KOTLOV YU N	7
KHACHATURYAN A M	39	KOCHELAP V A	40	KOTLYAREVSKIY M B	95
KHADZHI P I	61	KOCHNEV V A	16	KOTOCHIGOVA S A	72
KHAKHALIN S YA	108	KOCIECKA K	22	KOTSARENKO N YA	33
KHALFIN V B	6	KODRYANSKIY V M	84	KOVACHEV M I	67
KHANDOKHIN P A	3	KOGAN M N	101,102	KOVAL'CHUK L V	59
KHANEVICHEV V A	8	KOKHANOVSKIY S A	110	KOVAL'CHUK YU V	82,104
KHANIN YA I	3	KOL'CHENKO A P	18	KOVALENKO M I	28
KHAPALYUK A P	69	KOLEROV A N	4,100	KOVALEV I O	13,14
KHARCHENKO N F	88	KOLESNIKOV V P	63	KOVALEVSKIY V I	87
KHARITONOV V V	107,108	KOLESNIKOV V S	31	KOVALYUK Z D	87
KHASANOV O KH	68	KOLESNIKOV-SVINAREV V I	72	KOVIRIGAN A I	22,30
KHASHIMOV R N	95	KOLESOV G V	75	KOVSH I B	14
KHAYBULLIN I B	24	KOLEV I N	55	KOWALCZYK M	68

KOWARSHCHIK R	81	KULIYEV S N	106	LEYPUNSKIY O I	72
KOZEYEVA L P	2	KULYASOV A G	84	LEZHAVA G G	64
KOZHABEKOV S S	72	KUNTSEVICH B F	96	LIBENSON M N	104
KOZHEVNIKOV N M	60	KUPREYCHIK N P	50	LIBROVICH V V	14
KOZHIN V V	7	KUPRIYANOVA N G	64,81	LICHKOVA N V	32
KOZINTSEV V I	57	KUPRIYANOVA YE B	79	LIKHACHEV N I	53
KOZLOV YU G	24	KURAMATOV D	109	LIKHANSKIY V V	13
KOZLOVA M A	52	KURAMSHINA G M	99	LIKHTOROVICH S P	87
KOZLOVSKIY V I	5,52	KURATEV I I	4,30	LIMANOVA V F	108
KOZLOVSKIY YE N	10	KURBATOV A M	27,76	LINNIK L A	49
KOZOCHKIN S M	106	KURDYUMOV S P	106	LIPOVSKIY A A	37,49
KRAMIDA A YE	109	KURIK M V	37	LISITSA M P	41,96
KRASILOV YU I	4	KURNOSENKO L V	22	LITOVCHENKO V G	51
KRASNIKOV V V	59	KUROCHKINA T N	25	LITVINCHUK A P	99
KRASNOPEROV L N	73	KURUNOV R F	12	LOBANOV L M	81
KRASNOSHCHIEKOV YU I	19	KUSCH S	108	LOMAKIN A V	74
KRASOVSKIY A N	98	KUSH S (SEE KUSCH S)		LOMONOV V A	42
KRASYUKOV A G	13	KUSHIN V V	107	LOPATIN G	106
KRAVCHENKO V A	89	KUTANOV A	64	LOPUSHENKO V K	78
KRAVCHENKO V F	18	KUTUZOV YU I	61	LOSEV V F	17
KRAVCHENKO V I	21,46,96	KUZ'MENKO P N	27	LUCHNIKOV L A	45,46
KRAVTSOV N V	2,21	KUZ'MIN G P	13,14	LUKOVNIKOV D S	101
KRAVTSOV YU A	52,80	KUZ'MIN R N	31,35	LUKSHA O V	105
KRAYNOV V P	71,88	KUZ'MINA I P	95	LUK'YANCHUK B S	35,37,71
KRAYSKIY A V	86	KUZ'MINA YE YE	4,100	LUK'YANOV V N	6
KREMENCHUGSKIY L S	112	KUZ'MINOV YU S	68	LUNGERSHAUSEN T	31
KRENERT YU	2	KUZNETSOV A I	7	LUTOSHKIN V I	81
KREYNES N M	33	KUZNETSOV G P	72	LUTSIV R V	90
KRIKUNOVA E M	56	KUZNETSOV N T	4	LUZHAIN V G	52
KRINDACH D P	15	KUZNETSOVA N A	85	L'VOV A I	99
KRITSKIY A V	24	KUZYAKOV B A	15	L'VOV K M	70
KRIVOSHEYEV M V	107			LYAKHOV G A	20,31
KRIVOSHLYKOV S G	25	L		LYAKHOV YU A	67
KROKHIN O N	79,106,109	LABUSOV V A	43	LYAPIDEVSKIY V K	107,109
KROO N	41	LAN'KOVA S M	10	LYASHENKO V I	78,79
KRUGLOV B V	107	LANSHENKOVA T V	58	LYSIKOV YU I	103
KRUPITSKIY E I	111	LANTRATOVA S S	104	LYSOGOROV O S	24
KRUPKIN V KH	21	LAPTEV I D	94	LYSOY B G	4
KRUPNIK L I	109	LAPTEV V V	3,43,87	LYSTOV A A	97
KRUSZEWSKI J	52	LARIKOV L N	88	LYUBIMTSEV V A	91
KRUTIKOV A V	42	LASKOVA T YE	86	LYUBIN V M	104
KRUTYAKOVA V P	106	LASTOVKA V V	95	LYUTSAREV S V	58
KRUZHALOV S V	44	LASZLO J	28		
KRYLOV K I	38	LASZLO K	28	M	
KRYNETSKIY B B	72	LAVRENT'YEV YU V	26	MACHARADZE I D	63
KRYUKOV P V	7	LAVRINOVICH B M	54	MADATOVA E G	87
KRYZHANOVSKIY V I	34	LAVRISHCHEV S V	68	MADUMAROV A K	110
KSENOFONTOVA N M	98	LAZAREVSKAYA O A	95	MAK A A	33
KUBELKA J	2	LAZARUK A M	50	MAKARENKO S P	38
KUBERTAVICHYUS V	93	LAZEYEVA G S	81	MAKAROV G N	38,70,86
KUBRAKOV N F	23	LEBEDENKO V P	63	MAKAROV K N	106
KUCHARCZYK W	40	LEBEDEV F V	12	MAKAROV V A	22
KUCHINSKIY V I	6	LEBEDEV V B	75	MAKHARADZE T N	63
KUCH'YANOV A S	43	LEBEDEVA T P	39,62	MAKIN V S	104
KUDAYBERGENOV S YE	99	LEBO I G	107,108	MAKOLKIN I A	98
KUDRIN A B	77	LEDNEVA G P	45	MAKRETSOV S I	12
KUEHLKE D	28	LEDYANKIN S A	4	MAKRITSKIY YU V	7,8
KUKHAREV A V	49	LEMANOV V V	67	MAKSIMCHUK A M	107
KUKHARSKAYA S K	64	LEONOV YU S	17	MAKSIMENKOK B P	107
KUKHMA A V	51	LESHCHENKO V T	83	MAKSIMOV A A	96,100
KUKHTEVICH V I	74	LESHENYUK N S	14	MAKSIMOVA G V	42
KUKUSHKIN I V	89	LETOKHOV V S	70,91	MAKSIMOVA T I	96
KUKUSHKIN V G	61	LEV M L	81	MAKUSHEVA N A	101
KULAGIN N YE	50	LEVANOV YE I	106	MALAKHOV M N	69
KULAKOV M P	13	LEVCHENKO YE B	102	MALEKHANOV A I	52
KULAKOVSKIY V D	89	LEVCHENKO YE G	21	MALEVICH V A	10
KULAYEVA CH G	80	LEVIN G G	64	MALININ A N	17
KUL'CHIN YU N	65	LEVIT A D	43	MALROV A I	80
KULESH V F	81	LEVIT A L	20,21	MALYSHEV A A	28
KULESHOV A M	69	LEVONOVICH B N	43,95	MALYUTA D D	106
KULIKOV V V	69	LEYKIN M V	76,79	MALYUTENKO V F	86
KULIKOVSKAYA N I	83				

MALYUTIN A A	3	MIKLAVSKAYA YE M	30	NAYANOV V I	36
MAMAYEV A V	34	MINASYAN G P	29	NAZAROV B I	15
MAMEDOV A A	2	MINAYEV YU P	103	NAZAROV V L	25
MAMENOVA T K	48	MINCHENKO A I	52,80	NAZMITDINOV R G	61
MANDEL' A SH	48	MINDAK M	1	NECHAYEV S YU	9
MANENKOV A A	39,89,103	MINENKOV V R	12	NECHITAYLO V S	103
MARAKHONOV V I	28,29	MINKIN L M	11	NEDELIN YE T	7
MARASIN L YE	84	MIROSENKO S I	60	NEDOSHIVIN V V	48
MARDAR' V YA	85	MIROSHNICHENKO S I	51	NEGASHEV S A	16
MARGOLIN A D	14	MIROSHNIKOV A N	27	NEGRIYKO A M	45
MARGOLIN L N	97	MIROVITSKIY D I	25,112	NEHNEVAJ D	67
MARKHVIDA I V	47	MIRZABEKOV A M	81	NENCHEV M N	9
MARKHVIDA V G	82	MISHCHENKO T V	108	NERKARARYAN KH V	38
MARKMAN D L	39	MISHIN I V	57	NESTERENKO V F	2
MARKOV YE V	5	MISHIN V A	72	NESTEROV V M	17
MARKOVICH I E	101	MISHTA V P	46	NEVDAKH V V	14
MARKOVIN P A	89	MISOCHKO O V	73	NICKLES P V	31
MARKUSHEV V M	100	MITEV V M	38	NIDAYEV YE V	105
MARTINKOVA Z YE	89	MITIN YU N	86	NIKIFOROV V G	57
MARTIROSYAN A A	39	MITYURICH G S	36	NIKISHOV A I	90
MARTIROSYAN R M	44	MIZEROV M N	6,24	NIKITENKO A I	107
MARTYNENKO N G	40	MOCHALEV A V	85	NIKITIN A M	22
MARTYNOV A A	41	MOGIL'NITSKIY S B	60	NIKITIN V A	51
MASKAYEV A F	36	MOISEYENKO V N	97	NIKITIN V V	64,74,92
MASLOBOYEV YU P	50	MOLCHANOV A G	18	NIKOGOSYAN D N	72
MASLYANKIN V I	106	MOLOCHNIKOV B I	76	NIKOLAYEV F A	107,110
MASYURENKO YU A	84	MOLODYKH E I	15,16	NIKOLAYEV G A	102
MATISOV B G	39	MOMEROV N N	56	NIKOLAYEV V M	112
MATLASHEVSKIY V A	97	MORICHEV I YE	27	NIKOLOV I D	23
MATSONASHVILI B N	100	MOROZ YE G	84	NISHCHENKO M M	87
MATVEYENKO A V	100	MOROZOV V A	19	NIZHENSKIY A D	84
MATVEYEV I N	69,114	MOROZOV V N	64	NIZHIN A M	66
MATVEYEV R F	52	MOROZOV YU YU	89	NOSKIN V A	74
MATYASHUK I V	92	MOROZOVA YE A	27	NOSKOV M M	112
MATYUKHIN V F	69	MORSKOV V F	111	NOSKOV V I	70
MATYUSHIN G A	103	MCSKALENKO S A	39,61	NOVAK V R	53
MAYEV YE G	113	MOSKALEV V M	35	NOVIKOV YE I	24
MAYOROV V P	85	MOSKALEVSKIY A I	87	NOVIKOVA YE R	6
MAYYER A A	31,42	MOSTOVNIKOV V A	10	NOVITSKIY L A	113
MAZING M A	110	MOVSESYAN M YE	39	NOVITSKIY V G	88
MAZUR M YU	107	MOVSEV A K	85	NOVODEREZHKN V I	15
MDIVNISHVILI M O	65	MOVSEV V G	72	NOVOKHATKO S M	53
MEDVEDEV A S	63	MUCHICKA I I	25	NOWAK J	68
MEGRELISHVILI R SH	60	MUKHIN YU V	34		
MEL'CHENKO S V	101	MUKOSEYEV YU K	71	O	
MELEKHIN G V	21	MULAK G	59	OBERLAENDER S	97
MELEKHINA G P	21	MURADYAN A ZH	43	OBIDIN A Z	8
MELIKYAN A O	29	MURAV'YEV A A	31	OBUKHOV I V	56
MELIKYAN G G	40	MUSCUTARIU I	112	OBUKHOVSKIY V V	88
MELKADZE V I	63	MUZALEVSKIY V YE	110	ODULOV S G	68
MEL'NIK N N	95	MYL'NIKOV V S	27	OFER V I	102
MEL'NIK R I	79	MYSHETSKAYA E E	108	OGANESYAN S G	41,44
MEL'NIKOV L YU	40	MYUL'NIKOV G D	23	OGANESYAN V A	70
MEL'NIKOV M B	65	MYULLER G	82	OGANYAN A A	43
MERCEA V	71			OGNEV L I	14
MERKUL'YEV YU A	107	N		OKHOTNIKOV O G	74
MERKULOVA G I	64	NABOKO I M	16	OKHRIMENKO B A	87
MERTEN L	33	NABOYKIN YU V	90	OKOROKOV A N	66
MESHCHERYAKOVA T YU	81	NADEYEV A I	55	OLEFIR G I	27,57
MESHKOV G G	49	NADEZHDINSKIY A I	7	OLEYNIK O I	68
MESHKOVSKIY I K	42	NADZHAFOV A I	95	OMEL'YANOVSKIY E M	113
MESYATS G A	16	NAGAYEV A I	28	ONISHCHENKO N A	96
MEZENTSEVA L P	42	NAGIBAROVA I A	68	ONISHCHUKOV G I	32
MIGACHEV S A	91	NAKWASKI W	53	OPANASYUK YU D	46,96
MIKHALAKE D	61	NALEGACH YE P	16	OPILSKI Z	51
MIKHALEV M A	55	NAROVLYANSKAYA N M	43	OPRE V M	22
MIKHANEK A G	92	NASIBOV A S	5,52	ORAYEVSKIY A A	72
MIKHAYLOV M D	89	NAUGOL'NYKH K A	36	ORAYEVSKIY A N	38
MIKHAYLOV YU A	107,109	NAUMENKO YE K	61	ORLOV A N	89
MIKHAYLOVA G N	89	NAUMOV V G	13	ORLOV L N	14
MIKHKEL' SOO V	17	NAWROCKI Z	22	ORLOV M M	23,82
MIKHNOV S A	46				

ORLOV V V	107	PEREPECHKO S N	42	PONOMAR' V V	65
ORLOVICH V A	10	PEROV A N	7	PONOMAREV YU N	8
ORLOVSKIY V M	16	PERSHIN S M	22,30	PONTEKORVO D B	79
ORNATSKIY I A	84	PESTOV E G	21	PONTEKORVO G B	78
ORNIS A N	69	PETNIKOVA V M	59	POPOV A K	94
ORZEGEWSKI H	25	PETRANOVSKIY V P	93	POPOV S N	8
OSETROV V P	107	PETRASHENKO N P	63	POPOV S P	104
OSHCHEPKOV S L	61	PETRENKO V K	46	POPOV V V	8
OSIKO V V	3,42,43,91	PETROSYAN A A	92	POPOV YU M	5,64
OSIPOV V V	16	PETROSYAN A G	2,3	POPOV YU V	27,82,84
OSIPOV YU V	36	PETROSYAN K B	43,70	POPOVA N R	69
OSIP'YAN YU A	13	PETROSYAN V S	58	POROTNIKOV N V	97
OSTAF'YEV V A	81	PETROV A V	79,108	PORTNOVA G V	12
OSTROUMOV V G	3	PETROV D V	37	PORTNOY YE L	6,24,104
OSTROVSKAYA G V	82	PETROV M P	28,29,69	POSPELOV L A	77
OSTROVSKIY A V	96	PETROV N S	27,57	POTAPOV V T	5
OSTROVSKIY I V	37	PETROV V F	34	POTEKHIN A G	78,79
OSTROVSKIY YU I	81	PETROV V V	82	POTEKHIN G S	77
OVAKIMYAN T O	39	PETROV YU N	89	POTEMKIN A V	4
OVANESYAN K L	3	PETROVA O YU	60	POVETKIN V A	25
OVCHINNIKOV A A	110	PETROVSKIY G T	9,103	POZDEYEV V G	97
OVCHINNIKOV I T	90	PETROVSKIY V A	50,113	PRAGER R	52
OVCHINNIKOV V M	10,20,21,41	PETROVSKIY V N	18	PRANGISHVILI T V	8
OVCHINNIKOV V V	106	PETRU F	20	PRAVILOV A M	17
OVCHINNIKOVA D A	83	PETRUKHIN A I	101	PREDKO K G	59
		PETRUN'KIN V YU	37,44,49	PRILEPSKIY B V	69
P		PETRUSHEVICH YU V	13	PRISYAZHNYI V D	93
PAHNKE W	53	PETRYAKOV V N	26	PRIVALOV A P	49
PAKHOMOV I I	44	PEYKRISHVILI T R	63	PRIVALOV V YE	12
PAKHOMOV L N	44	PICHOLA W	1	PRIVIS YU S	3,46
PAKHTUSOVA YE V	44	PIKHOLYA V (SEE PICHOLA W)		PROK A	82
PANASYUK YE I	43	PILIPETSKIY N F	34	PROKHOROV A M	3,12,13,14
PANAYETOV V G	83	PILIPKO D P	82		25,43,72,89
PANCHENKO T V	97	PILIPOVICH V A	78		101,102,103
PANCHENKO YU M	13	PIROGOV YU A	31	PROKOPENKO V T	75,78
PANFILOV V N	73	PIRUMOV S S	42	PRORVICH V A	107,109
PANOV V A	76	PISARCHIK A N	96	PROTASOV S P	99
PANTELEYEV G V	14	PISAREV R V	89	PROTOPOPOV V V	114
PAPAZYAN T A	43	PISKARSKAS A S	47	PROTSENKO YE D	18,45
PAPERNNY S B	34	PIS'MENNYI V D	13,71,106	PSHENICHNIKOV M S	59
PAPYAN O S	92	PIVOVAROV B L	85	PUCHKOVSKAYA G A	38
PAPYRIN A N	87	PIVTORAK V A	81	PUDKOV S D	104
PARAMONOV G K	89	PLATOV A V	18	PUGACH I P	82
PARFENOV V G	41	PLESHANOV P G	96	PUGACH YU P	85
PARINOV S T	80	PLETNEVA N I	27	PUSHNNY B V	6
PARINSKIY A YA	53	PLINSKI E F	74	PUSTOVOY V I	30
PARKHOMENKO YU N	21	POBORCHII V V	93	PUZYREV V N	107
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PASHININ P P	3	PODISHVALOV A A	22	R	
PASHKIN S V	13	POGODAYEV V A	56	RACHYUKAYTIS G	93
PASMANIK G A	58	POGORELOV A YE	88	RADOSTIN YE G	16
PASTUKHOV V I	97	POGORELOV V YE	94	RAGIMOV A S	95
PATRIN G S	106	POGORELYI O N	46	RAGIMOVA T SH	90
PAUL H	46	POGORETSKIY P P	46	RAGOZIN YE N	109
PAVLENKO A V	49	POGOSOV O K	41	RAKHOVSKIY V I	98
PAVLENKO V A	76	POGOSYAN A L	43	RAKHVALOV V V	75
PAVLISHIN S P	90	POGOSYAN N G	44	RAL'CHENKO V G	101,102
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PAVLOV L Y	38	POKATILOV YE P	41	RATKEVICH V K	12
PAVLYUK A A	2	POKHSRARYAN K M	43	RAUTIAN S G	87
PECHERITSYN I M	89	POKROVSKIY YU A	61	RAYKHMAN B A	104
PEKAR' G S	5	POLISSKIY G N	5	RAYSKAYA L N	4
PELIPENKO V I	7	POLONSKIY A K	48	RAZUMOVA T K	97
PEL'TSMAN S S	12	POLOZKOV N M	68	RAZZHIVIN A P	47
PEN YE F	23	POLTORATSKIY E A	50	REBANE K K	98
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PENDYUR S A	17	POLUKHIN P I	77	REDKORECHEV V I	30
PENTIN YU A	99	POLUKHIN V N	8	REGEDA S N	16
PEREGUD B P	81	POLUSHKIN N I	3	REPYAKH V S	49
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RITUS V I	90	SAUTENKOV V A	74,92	SHESTAKOV A P	58
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ROGOV S A	36	SAVIN A A	110	SHEVERA V S	17
ROGOVTSEV P N	103	SAVVA V A	89	SHIBANOV A N	70
ROMANENKO P F	24	SAZONOVA Z S	62	SHIBARSHINA G D	61
ROMANOV I M	78	SCHINDLER K	29	SHIDLYAK YE	
ROMANOV M F	62	SCHMIDT W	81	(SEE SZYDLAK J)	
ROMANOV YU F	90	SCHOENNAGEL H	108	SHIGORIN V D	30,87
RONDAREV V S	75,78	SCHROEDER B	87	SHIKALOV V S	105
ROSTOKOVSKAYA R O	4	SCHROETER S	28	SHIKANOV A S	110
ROTARU A KH	61	SCHULZ V	33	SHILO V P	104
ROTINYAN M A	77	SEBRANT A YU	49	SHILOKHOVOST YU P	69
ROTOMSKIS R I	47	SEMCHENKO I V	36,41	SHILOV A A	58
ROVINSKIY R YE	103	SEMENTOV A K	16	SHIPULO G P	30,31
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ROZANOV N N	35	SEMENTOV G I	64	SHIROKOVA I P	103
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POZANOV V V	58	SEMEYKIN O V	58	SHIRYAYEV B A	69
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ROZHDESTVENSKIY A YE	56	SENKOV N V	74	SHKERDIN G N	36
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RUMANOV E N	73	SHABANOV A K	53	SHPAK I V	21
RUPASOV V I	72	SHACHKIN L V	13	SHTOFICH S V	8
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RUSOV V M	80	SHAKHNAZARYAN N V	32,37,70	SHUBIN A L	98
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RYABUKHO V P	80	SHALAYEV YE A	2	SHUBIN I F	27
RYAZANSKIY V M	16	SHALDIN YU V	5	SHUBNIKOV YE I	69
RYBALKO I O	83	SHALYGIN V A	29	SHULAKOV V N	13
RYBIN V M	16	SHAPOSHNIKOV V M	103	SHUL'GA A M	90
RYKALIN N N	83	SHARKHATUNYAN R O	39	SHULTIN A A	92
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RYZHOV V V	16	SHAROV V A	96	SIDORENKO V I	99
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SAFONOV A N	101	SHCHEGLOV V A	13	SIDOROVICH V G	34
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SAPOZHNIKOV M N	98	SHELKOVNIKOV N K	58	SINTISHEVSKIY A I	55
SAPRYKIN E G	87	SHELOBOLIN A V	110	SINYATYNSKIY A A	5
SARAYKIN S V	14	SHELYAKIN A A	7	SINYAVSKIY N M	30
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VASNETSOV M V	65	YAKIMENKO A P	49	ZAKHAR'YASH V F	11
VASYUK N N	90	YAKIMOVICH A P	24	ZAKS M B	8
VASYUTINSKIY O S	84	YAKOVINA V V	86	ZALESSKIY P I	85
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VELICHANSKIY V L	74,92	YANSHIN E V	90	ZAVOROTNYI S I	110
VEREVKIN V V	8	YARASHYUNAS K YU	60	ZAYDMAN O A	71
VERGUNOVA G A	108	YAREMKO A M	41	ZAYTSEVA S G	48
VERKHOTUROV V N	99	YARMOSH N A	65	ZEL'DOVICH B YA	70
VESELA Z	20	YAROVY L K	77,80	ZELENSKIY A N	110
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VEYNBERG V B	54	YASINSKIY V M	85	ZELIGER K	79
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