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This is the Soviet Laser Bibliography for May-June 1980, and is No. 47 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; 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.
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 May-June 1980, 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 the 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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IV. SOURCE ABBREVIATIONS

(CIRC Codens)

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<tr>
<th>Abbreviation</th>
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<td>APP (A)</td>
<td>(ATPLB) Acta physica polonica</td>
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<td>(BWATA) Biuletyn Wojskowej akademii technicznej J. Dabrowskiego</td>
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<td>Elek</td>
<td>(EKNTB) Elektronika [Poland]</td>
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<td>ETP</td>
<td>(EXPPA) Experimentelle Technik der Physik</td>
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<td>FAiO</td>
<td>(IFAOA) Akademiya nauk SSR. Izvestiya. Fizika atmosfery i okeana</td>
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<td>FGiV</td>
<td>(FGVZA) Fizika goreniya i vzryva</td>
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<td>FiKhOM</td>
<td>(FKOMA) Fizika i khimiya obrabotka materialov</td>
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<td>FTP</td>
<td>(FTPPA) Fizika i tekhnika poluprovodnikov</td>
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<td>(FTVTA) Fizika tverdogo tela</td>
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<td>Sb5</td>
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Sb21 Uchenyye zapiski TsAGI, no. 3, 1980.
Sb22 Razvedochnaya geofizika, no. 89, 1980.
Sb28 Dinamika izlucheyushchego gaza, no. 3, Moskva, 1980.
TJEKh (TEKHA) Teoreticheskaya i eksperimental'na khimiya
TKiT (TKTEA) Tekhnika kino i televizioniya
Tr1 Trudy VNII monokristallov, Stsintillatsionnykh materialov i osobo chistych khimicheskikh veshchestv. Sbornik nauchnykh trudov, no. 4, 1979.
Tr5 Vychislitel'nyy tsentr Moskovskogo GU. Sbornik rabot, no. 31, 1979.
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Tr9 Karakalpaskiyy filial AN UzSSR. Vestnik, no. 3, 1979.


Tr13 Institut okeanologii AN SSSR. Trudy, no. 90, 1980.


TVT (TVTYA) Teplofizika vysokikh temperatur

UFN (UFNAA) Uspekhi fizicheskikh nauk

UFZh (UFIZA) Ukrainskiy fizicheskiy zhurnal

VMU (VMUFA) Moskovskiy universitet. Vestnik. Fizika, astronomiya

ZhETF (ZEIFA) Zhurnal eksperimental'noy i teoreticheskoy fiziki

ZhETF P (ZFPRA) Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki

ZhFKh (ZFKHA) Zhurnal fizicheskoy khimii

ZhNiPFiK (ZNPFA) Zhurnal nauchnyi i prikladnoy fotografii i kinematografii

ZhPMTF (ZPMFA) Zhurnal prikladnoy mehaniki i tekhnicheskoy fiziki

ZhPS (ZPSBA) Zhurnal prikladnoy spektroskopii

ZhTF (ZTEFA) Zhurnal tekhnicheskoy fiziki

ZhTF P (PZTFD) Pis'ma v Zhurnal tekhnicheskoy fiziki
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