

61-16875

Bazhulin, P. A., Plate, A. F. and others.  
OPTICAL METHOD OF INVESTIGATION OF HYDROCARBONS. II. SPECTRA OF COMBINATION SCATTERING OF PARAFFINS. [1961] [5]p. 6 refs.  
Order from OTS or SLA \$1.10      61-16875

I. Bazhulin, P. A.  
II. Plate, A. F.  
III. Title: Spectra...

Trans of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1941, no. 1, p. 13-26.

DESCRIPTORS: \*Hydrocarbons, Raman spectroscopy, Optical analysis, Gasoline, Octanes, Fuels, Chemical industry.

An investigation of the Raman spectra of 19 paraffins is reported using a simplified method of determination of intensities of the spectral lines. These hydrocarbons include normal pentane, 2-methylbutane, normal hexane, 2-methylpentane, 3-methylpentane, normal heptane, 2-methylhexane, 3-methylhexane, 2,2-dimethylpentane, 3-ethylpentane, normal octane, 2-methylheptane, 3-methylheptane, 4-methylheptane, 3,3-dimethyl- (Physics--Spectroscopy, TT, v. 6, no. 7) (over)

Office of Technical Services

hexane, 2,5-dimethylhexane, 3-ethylhexane, 2,2,4-trimethylpentane and 2,4-dimethylhexane. A comparison is made with literature data for those of the enumerated hydrocarbons for which Raman spectra were reported. The methods employed for the preparation of these hydrocarbons are described. (Author)

PB- 61-16875

Investigation of the Temperature Dependence of  
Raman Spectroscopic Line Intensities, by A. N. Sokolov-  
skaya and P. A. Bazhulin, 5 pp.

RUSSIAN, par. Iz Ak Nauk, Ser Fiz, Vol XXII,  
No 9, 1958, pp 1057-1061.

Columbia Tech

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Investigation of the Temperature Dependence of  
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Gases, by V. N. Smirnov, P. A. Bazhulin, 5 pp.

RUSSIAN, Per, Optika i Spektro, Vol VII, No 2,  
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Photoelectric Investigation of Raman Spectra of  
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RUSSIAH, per, Optika i Spektro, Vol VIII, No 2,  
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A. I. Sokolovskaya, M. M. Sushchinskiy 1 p.

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Vol XVIII, No 6, 1954, pp 678-679. CIA C 40664

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Amer Inst Phys  
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Vol V, No 7,

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Optical Method of Investigation of Hydrocarbons  
and Raman Spectra of Alkanes, by P. A. Bazhulin,  
Ch. B. Sterin, 8 pp.

RUSSIAN, mime per, Iz Ak Nauk SSSR, Ser Fiz,  
Vol XI, 1947, pp 456-460.

CIA/TDD XX-220  
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Investigation of the Temperature Dependence of  
the Infrared Absorption Band Intensity in  
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The Optical Method of Investigation of Hydrocarbons. Communication 7. Raman Spectra of Some Naphthenes, by P. A. Baghulin, A. V. Koperina, A. L. Liberman, V. A. Ovodova, B. A. Kazansky, 6 pp.

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Scientific - Chemistry

CTS 69/Jun 55

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Determination of the Composition of the Individual  
Hydrocarbons of Gasolines by the Combination Method.  
Communication 5. Gasoline from Enba Petroleum, by  
D. A. Kazansky, G. S. Landsberg, A. F. Plate, P. A.  
Bazulin, A. L. Liberman, E. A. Mikhaïlova, M. M.  
Sushchinsky, G. A. Tarasova, S. A. Ukholin, S. V.  
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The Study of Rotation and Vibration-Rotation  
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Vol V, No 4

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Methods of Measuring Line Intensity in Raman  
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3 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXVIII, No 1,  
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Vol II (68), No 3

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Determination of the Individual Hydrocarbon Composition  
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4. Gasoline From Tuimazin Petroleum, by B. A.  
Kazansky, G. S. Landsberg, A. F. Flate, P. A. Bazhulin,  
E. A. Mikhaylova, A. L. Liberman, M. M. Sushchinsky,  
G. A. Tarasova, S. A. Ukholin, S. V. Voronko, 10 pp.

Full translation.

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Scientific - Chemistry

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Determination of the Individual Hydrocarbon  
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Kazansky, G. S. Landsberg, A. F. Plate, A. L.  
Lieberman, E. A. Mikhaylova, P. A. Bazhulin, M. I.  
Batuev, S. A. Ukholin, T. F. Bulanova, G. A.  
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An Optical Method for the Study of the Silicon-Organic  
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Plastics in Fruit Growing, by J. Bazier.

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Raman-Spectrum Method of Investigating Hydrocarbons. Communication 11. Raman Spectra of Bicyclopentyl and Dicyclopentylalkanes, by S. V. Markova, P. A. Bazhulin, V. I. Stanko, A. F. Plate, 7 pp.

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Bazilevich, N. I. and Rodin, L. E.  
PERCULARITIES OF THE REDUCED BIOLOGICAL  
CYCLE IN ZONES CHARACTERIZED BY VARIOUS  
SOILS AND FLORA (Osobennosti Malogo Biologiches-  
kogo Krugovorota v Razlichnykh Pochvenno-Rastitel'nykh  
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Order from OTS \$0.50      63-11028

Trans. of Akademiya Nauk SSSR. Doklady, 1954, v. 97,  
no. 6, p. 1061-1064.

DESCRIPTORS: \*Rhythm (Biology), \*Plants (Botany),  
\*Soils, Ecology, Minerals.

It is shown that the interrelation between vegetation and  
soil, in the form of a reduced cycle of the ash and other  
elements, has significant differences within differing  
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(Biological Sciences--Botany, TT, v. 10, no. 3)

- I. Title: Biogeocoenosis
- I. Bazilevich, N. I.
- II. Rodin, L. E.
- III. PL-480 Agr (63-11028)
- IV. National Science Foundation, Washington, D. C.

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Bazilevich, N. I. and Kurganskiy, A. G.  
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WOLGA-LANDES (Problema Orosheniya Srednego  
Povolzh'ya). [1961] [9]p. 6 refs. TL 951; [DSIR LLU]  
M 2092.  
Order from OTS or SLA \$1.10                      61-13449

Trans. in German of Pochvovedeniye (USSR) 1950,  
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DESCRIPTORS: \*Irrigation systems. \*Soils. \*Climate,  
USSR, Agriculture.

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Analysis of Heat Transfer Processes During Sintering  
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2 $\beta$ -carboxylic Acid, Ecgonine, by G. I. Basilevskaya  
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The Synthesis of Tropans-3-ol, Tropine,  
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Sci - Chem  
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of N-Methyl-1-(3', 4'-dimethoxybenzyl), -5,6'  
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Direct Titration of Calcium and Magnesium in Open-Hearth and Blast-Furnace Slags With the Disodium Salt of Ethylene-Diaminetetracetic Acid, by I. N. Bazilevskaya.

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Sci - Chem; Min/Metals  
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Experience Gained in the Application of Apparatus  
Mechanical Clip Vessel Sutures in Experimental and  
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Experience Gained in the Application of Apparatus for  
Mechanical Clip Vessel Sutures in Experimental and  
Clinical Use, by Z. V. Bazilevskaya, Yu. V.  
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New Technique of Deoxidizing Steel With Aluminum,  
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Bazilevski, M. V.; Piskun, N. I.  
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Order from ATS: \$7.00 as ATS-51S85R

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FTD-TT-61-221

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Solution of Time Logical Equations by the  
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Sci - Phys

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Sci - Phys

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Bazilevskiy, Yu. Ya., ed.  
THE THEORY OF MATHEMATICAL MACHINES.  
Dec 60, 270p.  
Order from PP \$10.00

Trans. of unidentified Russian mono., n.p., n.d.

Contents:

The Theory of Sequential Logical Functions  
The Structure of Memory or Storage Systems  
Some General Problems of Programming  
Programming and Recursive Functions  
Methods of Estimating the Efficiency of Universal  
Digital Computers with Programme Control  
The Solution of Systems of Linear Algebraic Equations  
by a Monte Carlo Method  
The Most Economic Address System for a Digital  
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Multi-register Schemes for Arithmetical Operations.

(Mathematics--Computing Devices, IT, v. 5, no. 1)

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CIA CALL NO.

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"To Develop the Production of Electronic Computers"  
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*Decree*  
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Sci - Engt  
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SCI - MED

AUG 62

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