

Contents

Vol. 32, No. 4, 2024

Sources of Coherent Radiation of Infrared and Microwave Range

Optimization of Pump Pulse Duration and Cr:ZnSe Crystal Length for Efficient Generation of Tunable Mid-IR Laser Radiation Pumped by Laser Diode at Room Temperature

A. Říha, H. Jelínková, M. E. Doroshenko, J. Šulc, M. Němec, D. Vyhlídal, and D. V. Badikov 257

Dependence of Plasma Maser Emission Spectra on Azimuthal Plasma Concentration Inhomogeneity

A. E. Donets, V. I. Rogozhin, V. P. Bakhtin, A. B. Buleyko, A. G. Bykov, O. T. Loza, and A. A. Ravaev 268

Interaction of Laser Radiation with Matter

Effect of Laser-Induced Heating of the Antiferromagnetic IrMn Layer on Generation of Terahertz Pulses in Co/WSe₂-Based Spintronic Emitters

A. V. Gorbatova, A. M. Buryakov, P. Yu. Avdeev, E. D. Lebedeva, I. Yu. Pashen'kin, E. A. Karashtin, M. V. Sapozhnikov, and E. D. Mishina 273

Optical Methods for the Study of Aqueous Solutions

Features of Light Scattering in Turbid Media As Modeled for Two-Component Emulsions

A. V. Shkirin, N. V. Suyazov, S. N. Chirikov, L. L. Chaikov, M. A. Shermeneva, and S. V. Gudkov 280

Underwater Acoustic

Resolution of Hydroacoustic Noise Signals under Conditions of Spatial–Temporal Variability of Ocean Environment

V. M. Kuz'kin, S. A. Pereselkov, P. V. Rybyanets, and S. A. Tkachenko 290

Comparison of the Waveguide and Phase–Energy Invariants in the Near-Field Zone of Acoustic Illumination

S. P. Aksenov and G. N. Kuznetsov 300
