

ISSN 1070-3632
CODEN: RJGCEK

RUSSIAN JOURNAL OF GENERAL CHEMISTRY

Editor-in-Chief
Oleg G. Sinyashin

Pleiades
Publishing Group
Over **50** years
in the service of
science and education

<https://pleiades.online>
<https://link.springer.com>



PLEIADES GROUP OF COMPANIES

Distributed by **SPRINGER NATURE**



Volume 95, Issue 13
December 2025

ISSN 1066-3657
CODEN RUSJCH

27 articles in this issue

Interaction of Mine Waters with Sulfide Minerals in Tin–Lead–Zinc Ores from the Perevalnoe Deposit (Komsomolsky District, Khabarovsk Krai)



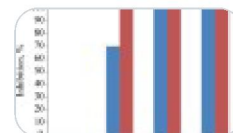
RESEARCH PAPER | 12 January 2026 | Pages: 4001 - 4010

Treatment of Mining and Chemical Enterprise Technogenic Waters Using Artificial Geochemical Barriers (on the Example of Dalnegorsk Mining and Processing Plant)



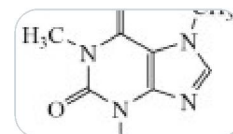
RESEARCH PAPER | 12 January 2026 | Pages: 4011 - 4017

Phytotoxic Effects of Detergents on Lentils (*Lens Culinaris*) under Biotest Conditions



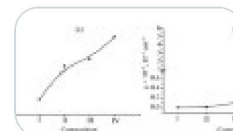
RESEARCH PAPER | 12 January 2026 | Pages: 4018 - 4024

Acute Toxicity of Caffeine in Humans



RESEARCH PAPER | 12 January 2026 | Pages: 4025 - 4028

Emulsification and Stabilization of Epoxy Oligomer Emulsions with Surfactants and Solid Microparticles



RESEARCH PAPER | 12 January 2026 | Pages: 4029 - 4037

Water Analysis of the Gulf of Finland

Mathematical Description of Nitrification in Rivers: The Key Role of Dissolved Oxygen



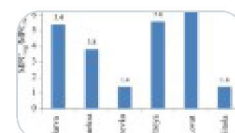
RESEARCH PAPER | 12 January 2026 | Pages: 4046 - 4053

Temporal Trends and Spatial Distribution of PCBs in the Pelagic Sculpin *Comephorus Baicalensis* from Lake Baikal (2000–2023)



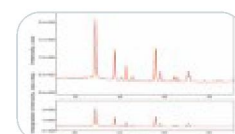
RESEARCH PAPER | 12 January 2026 | Pages: 4054 - 4061

Justification of Regional Maximum Permissible Metal Concentrations in Transboundary Rivers



RESEARCH PAPER | 12 January 2026 | Pages: 4062 - 4067

Use of TiO₂ for the Protection of Aquatic Ecosystems



RESEARCH PAPER | 12 January 2026 | Pages: 4068 - 4073

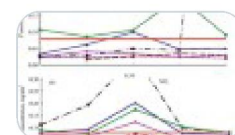
Fish–Zooplankton–Algae: Is it Possible to Control Eutrophication in Water Bodies?

RESEARCH PAPER | 12 January 2026 | Pages: 4074 - 4078

Demetallization of Water from the Gulf of Finland Basin Using Chitosan Biosorbent from *Rhizopus oryzae* F-814

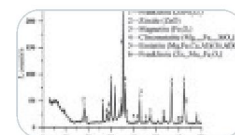
RESEARCH PAPER | 12 January 2026 | Pages: 4079 - 4089

Assessment of the Level of Pollution of Glacial and Non-Glacial Rivers of the Central Caucasus Based on the Results of Five-Year Monitoring



RESEARCH PAPER | 12 January 2026 | Pages: 4090 - 4098

Effect of Physico-Chemical Properties of Carbonaceous Materials of Various Origins on the Efficiency of Metallization of Iron-Containing Waste



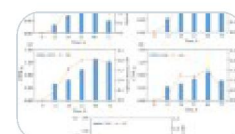
RESEARCH PAPER | 12 January 2026 | Pages: 4099 - 4105

Forest Plantations as the Main Priority for the Development of the Forest Industry in the Far Eastern Federal District



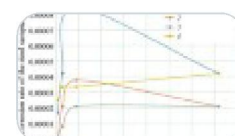
RESEARCH PAPER | 12 January 2026 | Pages: 4106 - 4113

Utilization of Waste-Derived Fatty Acid Feedstock for Polyhydroxyalkanoate Biosynthesis by *Cupriavidus necator* H16



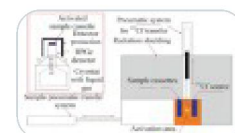
RESEARCH PAPER | 17 May 2025 | Pages: 4114 - 4126

Definition of Corrosion Rate and Dynamics of Change in Properties of Materials Applied for Manufacturing Downhole Electric Pump Units



RESEARCH PAPER | 12 January 2026 | Pages: 4127 - 4135

Assessment of the Precious Metals Content in Carrier Minerals by the Neutron Activation Analysis with a Radioactive Source



RESEARCH PAPER | 12 January 2026 | Pages: 4136 - 4145

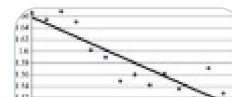
Hydrochemical Characteristics of Lakes of Pinezhsky State Nature Reserve in Winter

RESEARCH PAPER | 12 January 2026 | Pages: 4146 - 4152

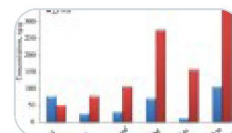
Monitoring Studies of Changes in Concentration of Polluting Ingredients in Winter low Water and Summer Flood Waters of the Baksan River over a Long-Term Observation Period

RESEARCH PAPER | 12 January 2026 | Pages: 4153 - 4159

Dynamics of Anthropogenic Pressure on the Territory of Russia



Variations in the Perilene Content in the Surface Layer of the Bottom Sediments of Lake Baikal

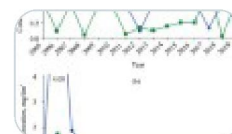


RESEARCH PAPER | 12 January 2026 | Pages: 4164 - 4171

The Role of Zooplankton in Water Clarification and Purification in a Polluted Highly Eutrophic Fish Pond

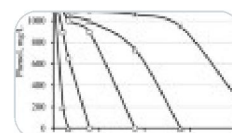
RESEARCH PAPER | 12 January 2026 | Pages: 4172 - 4177

Anthropogenic Load and Variability of the Pollutant Content in the Water of Podkumok, a Nonglacial River in the Central Caucasus, over a Long-Term Period (2005–2019)



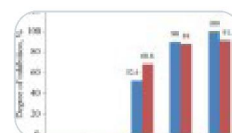
RESEARCH PAPER | 12 January 2026 | Pages: 4178 - 4183

Intensification of Phenol Biodegradation Using a Biocomposite Based on a Bacterial Cellulose Gel Film and Yeast *Debaryomyces hansenii*



RESEARCH PAPER | 12 January 2026 | Pages: 4184 - 4189

Characteristics of the Negative Influence of High Detergent Concentrations on *Lens culinaris* and *Vigna radiata*



RESEARCH PAPER | 12 January 2026 | Pages: 4190 - 4195

Enantioselective Reduction of Hex-5-en-2-one and 6-Methylhept-5-en-2-one, Catalyzed by *Petroselinum crispum* Cells

RESEARCH PAPER | 12 January 2026 | Pages: 4196 - 4199