

ISSN 1990-7931

RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY B

Focus on Physics

**Editor-in-Chief
Maksim G. Golubkov**

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**

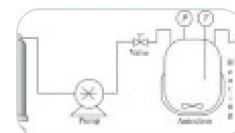


Volume 19, Issue 7
December 2025

ISSN 1070-4280
CODEN RJPCHD

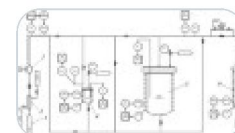
14 articles in this issue

Supercritical Carbon Dioxide for Protecting Paper Documents from Biodeterioration



OriginalPaper | 29 January 2026 | Pages: 1557 - 1565

Solubility of Copper Salts in Supercritical Carbon Dioxide



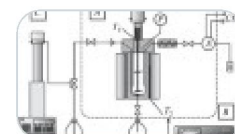
OriginalPaper | 29 January 2026 | Pages: 1566 - 1572

Experience of Using the Lazerokhim Densitometer to Determine the Densities of Water–Organic Reaction Media



OriginalPaper | 29 January 2026 | Pages: 1573 - 1581

Supercritical Alcoholysis of Bornyl Acetate in Fir Needle Essential Oil for Borneol Production



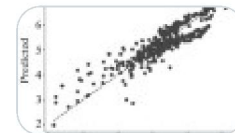
OriginalPaper | 29 January 2026 | Pages: 1582 - 1588

Synthesis of Transparent Amino-Modified SiO₂-Aerogels and Their Derivatives

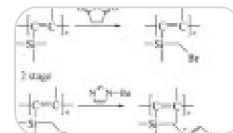


OriginalPaper | 29 January 2026 | Pages: 1589 - 1595

Modeling of Solubility of Organic Substances in Supercritical Carbon Dioxide



Chemical Modification of Poly(1-Trimethylsilyl-1-Propyne) in Supercritical Fluids for the Development of Highly Efficient Membrane Materials



OriginalPaper | 29 January 2026 | Pages: 1604 - 1611

Oxidation of Aluminum in Sub- and Supercritical Water: Influence of Temperature and Duration on the Composition of Solid Oxidation Products



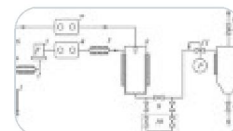
OriginalPaper | 29 January 2026 | Pages: 1612 - 1617

Software Package for Conceptual Design of Processes for Obtaining Chitosan Aerogel Particles



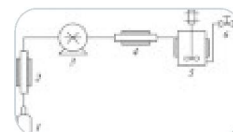
OriginalPaper | 29 January 2026 | Pages: 1618 - 1625

Supercritical Antisolvent Precipitation Combined with UV Spectroscopy for Measuring Solubility in CO₂–Solvent Mixtures



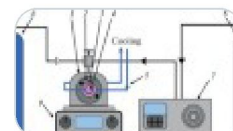
OriginalPaper | 29 January 2026 | Pages: 1626 - 1631

Micronization of Salbutamol Sulfate by Supercritical Antisolvent Precipitation from Single- and Two-Phase CO₂–Methanol Mixtures



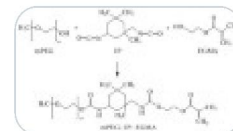
OriginalPaper | 29 January 2026 | Pages: 1632 - 1638

Quinizarin—an Effective Photocatalyst for Oxidation of Organic Sulfides in a Supercritical Carbon Dioxide Medium



OriginalPaper | 29 January 2026 | Pages: 1639 - 1648

Aliphatic Polyesters Modified in Supercritical Carbon Dioxide as Polymerizable Implant Materials



Supercritical Fluid Extraction of Bioactive Compounds from *Polytrichum commune* Moss Biomass

