1. Elementary physicochemical processes

2. Structure of chemical compounds, quantum chemistry, spectroscopy

3. Effect of external factors on physicochemical conversions

4. Kinetics and mechanism of chemical reactions, catalysis

5. Combustion, explosion, and shock waves

6. Dynamics of phase transitions

7. Electric and magnetic properties of materials

8. Physical methods for investigation of chemical processes

9. Chemical physics of biological processes

10. Chemical physics of ecological processes

11. Chemical physics of polymer materials

12. Chemical physics of nano-materials

13. Dynamics of transport processes

14. Reactions on surface

15. Chemical physics of atmospheric phenomena