

# Kémia tételek

## Instruments

1. NMR
2. IR
3. SEM micrograph, elemental map
4. GC-MS
5. Reaction fronts
6. pH meter and electrodes
7. Layered double hydroxides, calcination, delamination, structure reconstruction
8. Synchrotron-based X-ray absorption spectroscopy
9. The mechanisms of Suzuki and Negishi coupling reactions
10. Oil refining
11. Transport processes
12. Alumina production (Bayer process)

## Topics

1. Radioactivity
2. Reaction kinetics (types of reaction, kinetic parameters)
3. Catalysis (homogeneous, heterogeneous, phase-transfer)
4. Fundamental operations in chemical technology
5. Types of isomerism
6. The fundamental reaction types in organic chemistry
7. Primary and secondary bonds
8. Crystal field theory
9. Making of polymers
10. Colloid systems
11. The interactions of a material and the electromagnetic wave
12. The laws of thermodynamics and the characteristic of the thermodynamical potential functions

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