

STRUCTURAL AND SURFACE ANALYSIS

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OPIS

The aim of the course is focused on the presentation of the most recent advances in the techniques of surface analysis as SEM, TEM, XPS etc. The application of the spectroscopic method for the elucidation of the organic compounds structure will be also demonstrated. Selected examples of 2D NMR, IR, CD and ORD analysis of the selected compounds will be discussed.

TEMATYKA / ZAGADNIENIA

The course will discuss the following topics:

1. Advanced methods of surface analysis (SEM, TEM ect.) (6h)
2. 2D NMR analysis of selected compounds (4h)
3. Advances of Vibrational spectroscopy (IR and Raman) (3h)
4. Chiroptical spectroscopy and its application (CD, ORD) (2h)

SPOSÓB ZALICZENIA PRZEDMIOTU (EGZAMIN I W JAKIEJ FORMIE)

Written exam from the scope of the topics presented during lectures. A 60% of available points is required to pass.

LITERATURA:

Selected literature (more recent publications will be provided during the course):

1. J.B. Lambert, H. F. Shurvell, D. A. Lightner, R. G. Cooks, Organic structural spectroscopy,
2. R. Benn, H. Gunther, Angew. Chem., Int. Ed. Engl., **22**, 350 (1983)
3. R.H. Meier, R.R. Ernst, J. Am. Chem. Soc., **101**, 6441, (1979).
4. C. Djerassi, H. Wolf, E. Bunnenberg, J. Am. Chem. Soc., **84**, 4552, (1962)

Termin	Dzień tygodnia	Godzina	Miejsce
07.03.2016 14.03.2016 21.03.2016	Poniedziałek	16.15 – 18.00	Sala 112/113 Chemia A
10.03.2016 17.03.2016 24.03.2016	Czwartek	16.15 – 18.00	Sala 112/113 Chemia A
31.03.2016	Czwartek	16.15 – 19.00	Sala 112/113 Chemia A