

Lumineszcens arany(I)- tartalmú óriásmolekulák

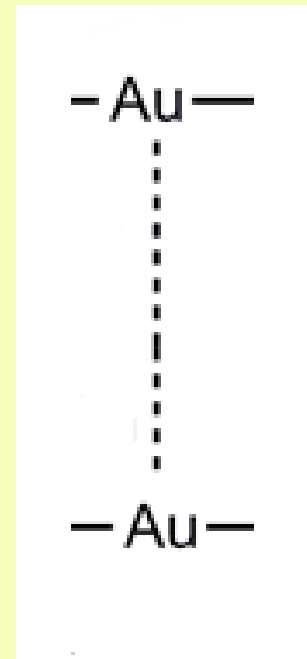
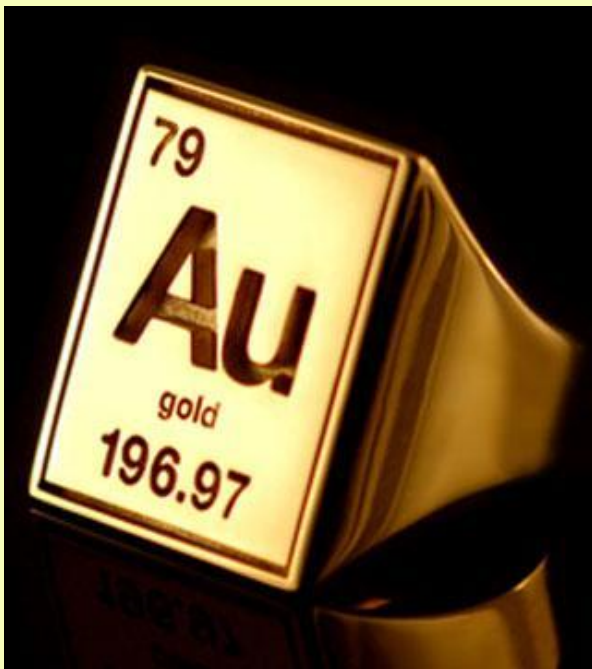
Készítette:

Horváth Réka, Kóczy Ferenc, Paizs Ferenc és Timár Paula
MTA TTK, Szerves Kémiai Intézet

Témavezetők: Dr. Baranyai Péter
Jobbágy Csaba

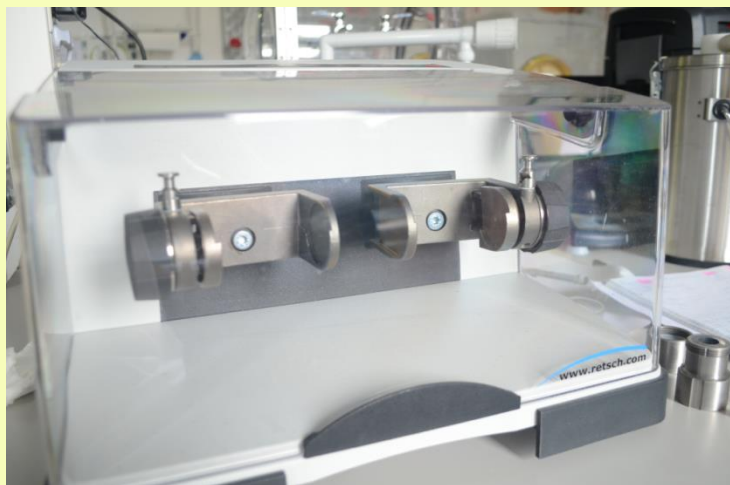
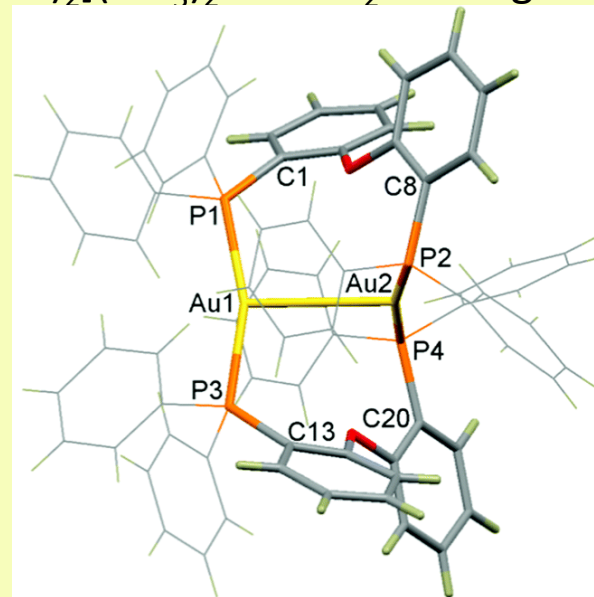
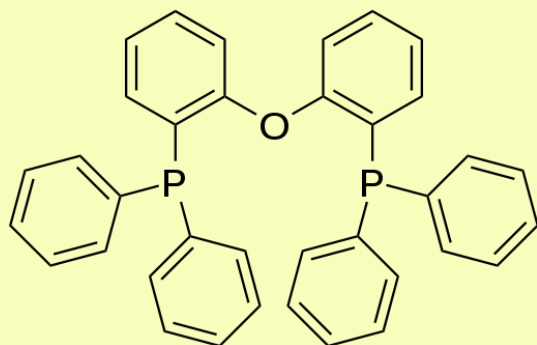
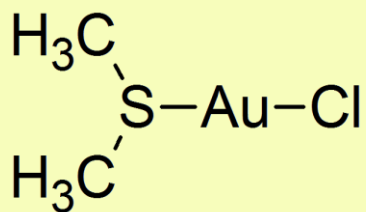
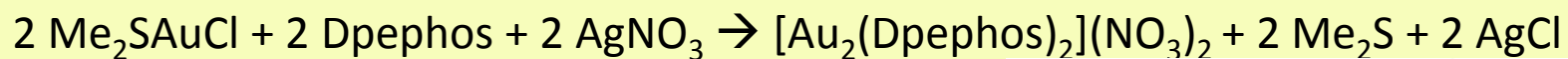
Aranyvegyületek

- Aurofil kölcsönhatás

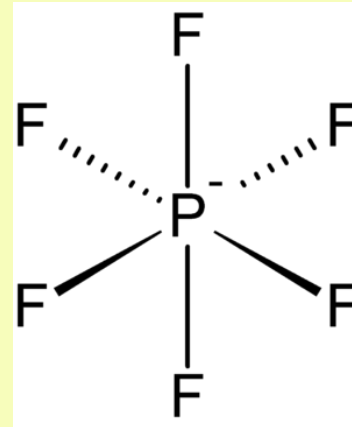
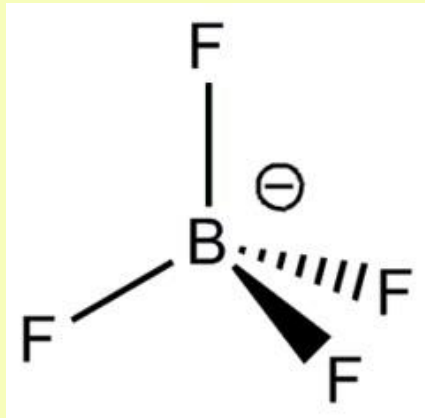
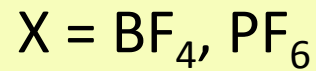
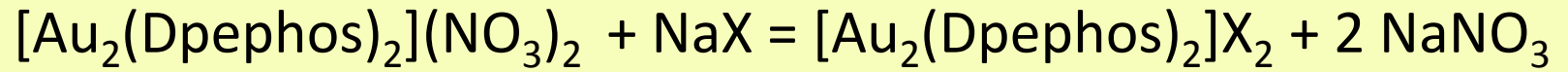


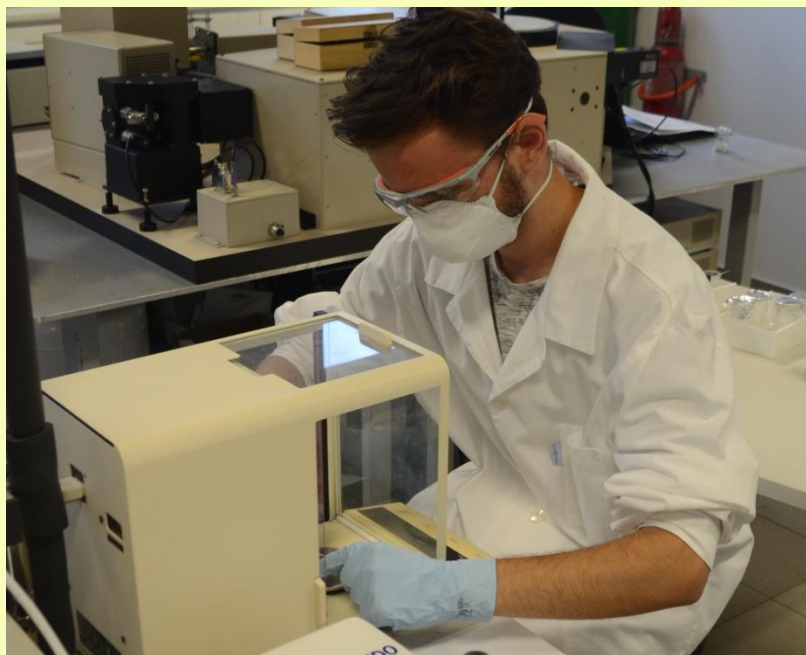
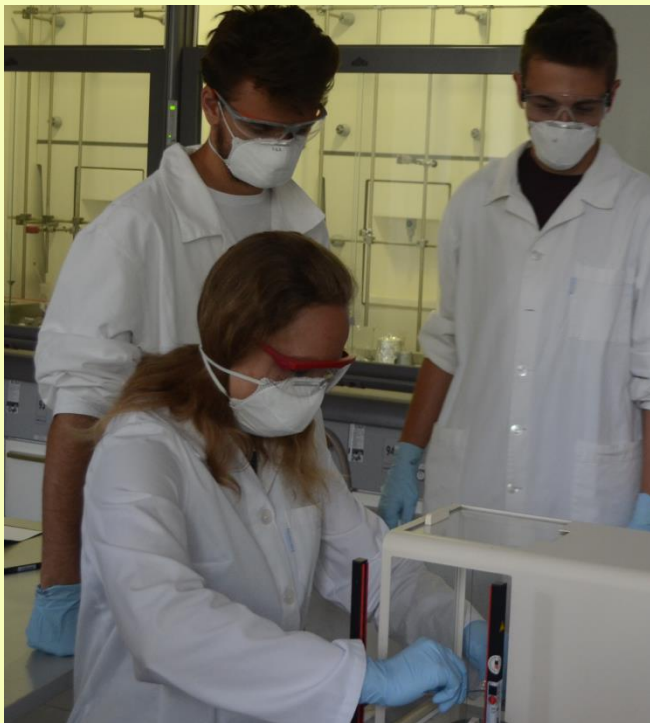
Munkafolyamat

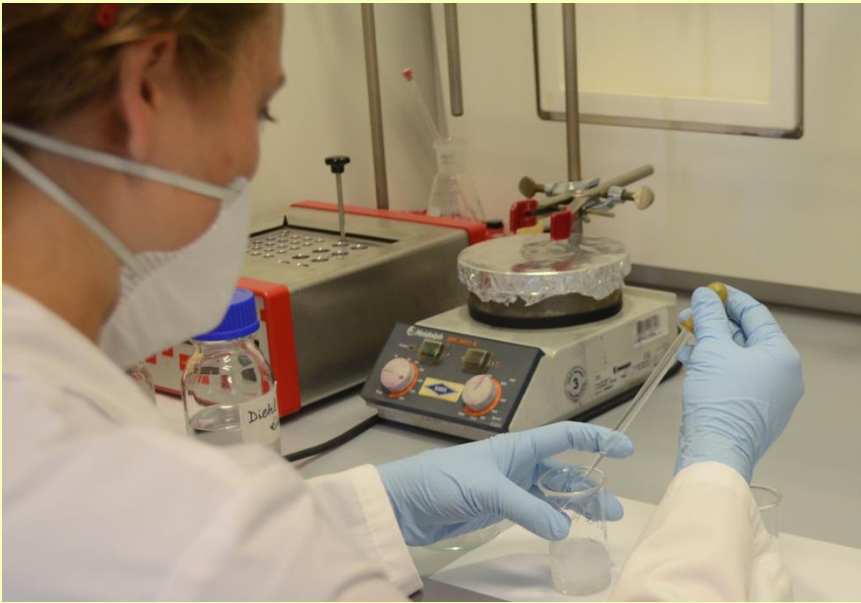
- Kristályok létrehozása

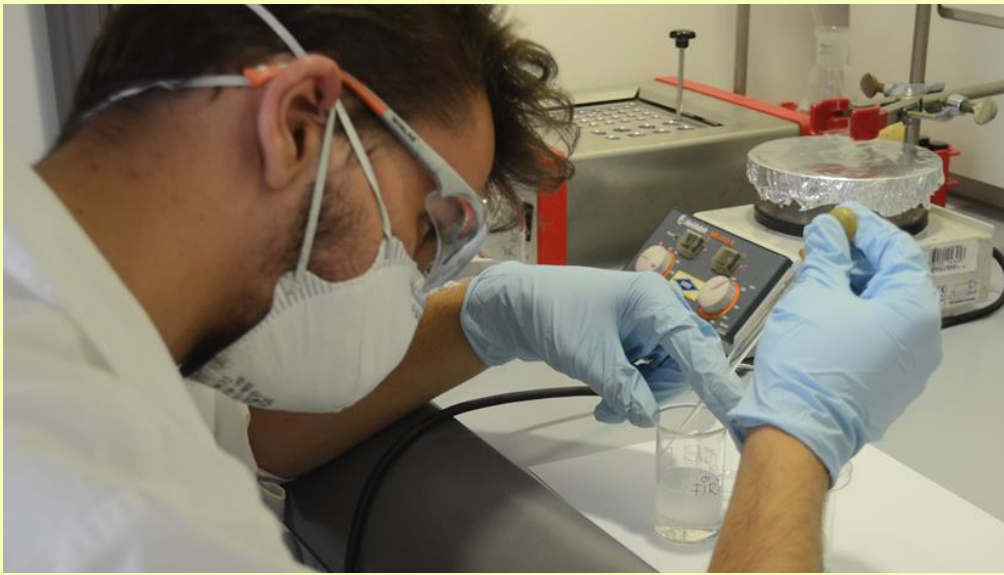


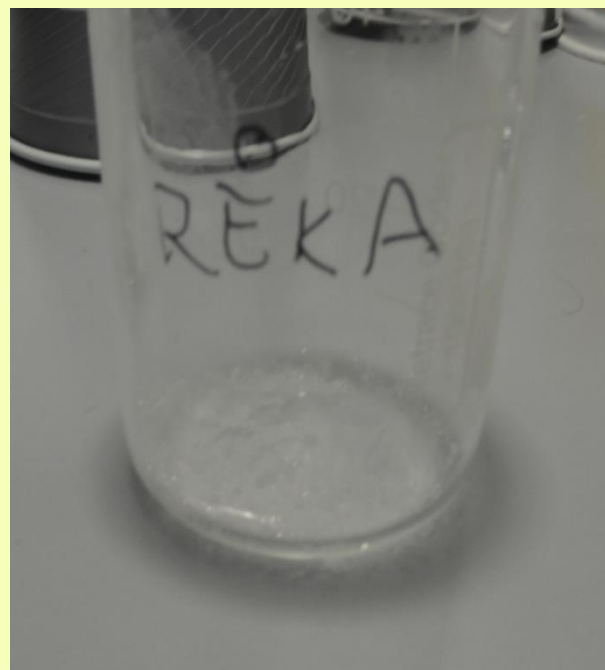
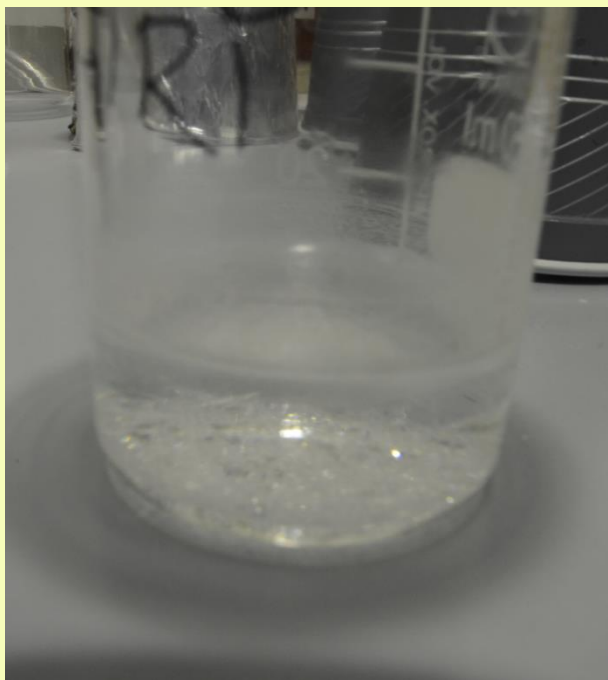
Anioncsere





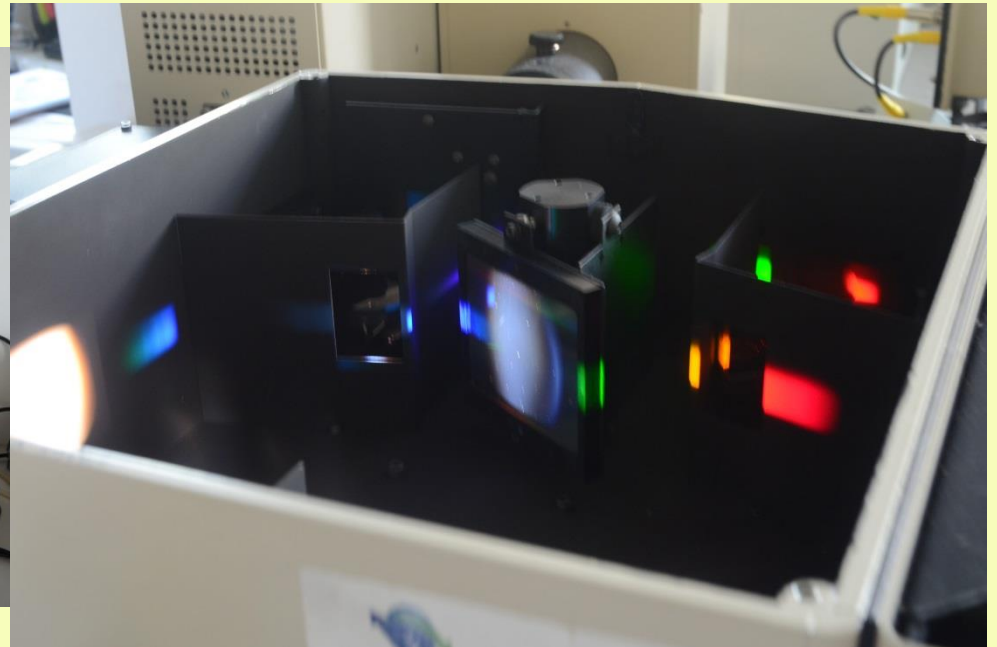






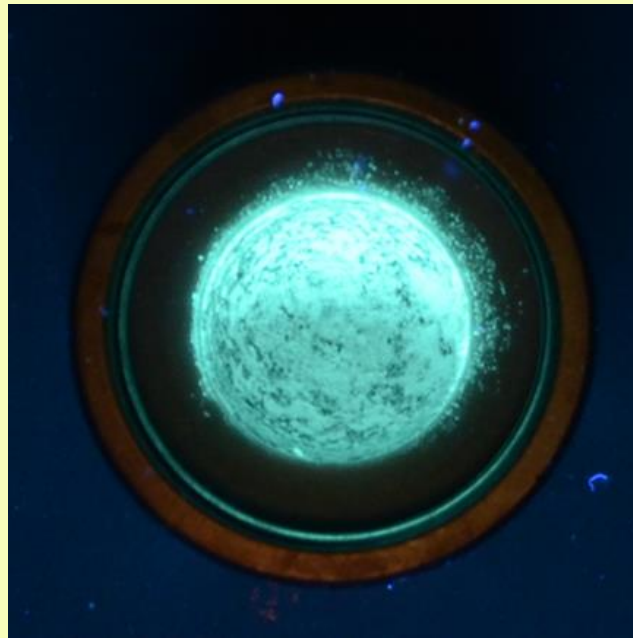
Vizsgálatok

- UV-fény alatt
- Lumineszcencia spektrofotometria

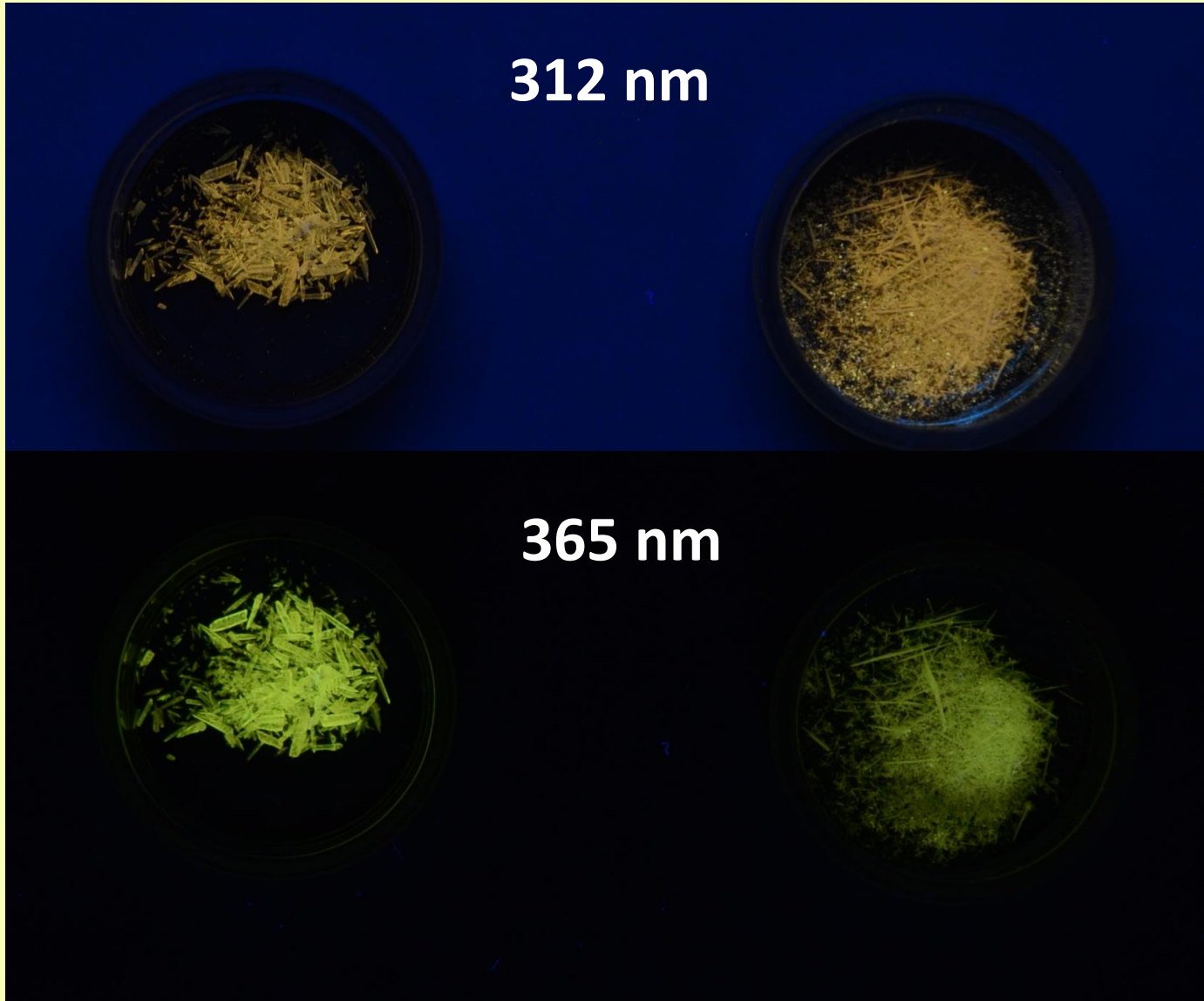


Fotolumineszcencia

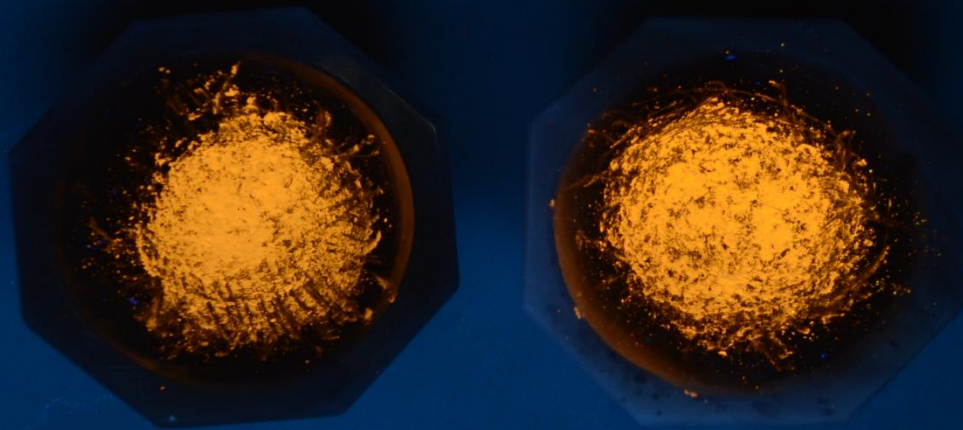
- Mechanokróm, termokróm fotolumineszcencia



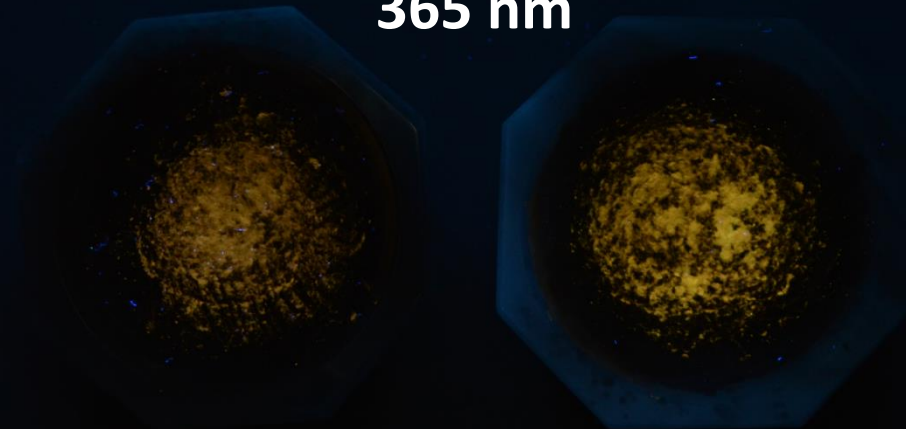
- Az anion cserélt vegyületeket vizsgáltuk több hullámhosszon – eltérés!



312 nm



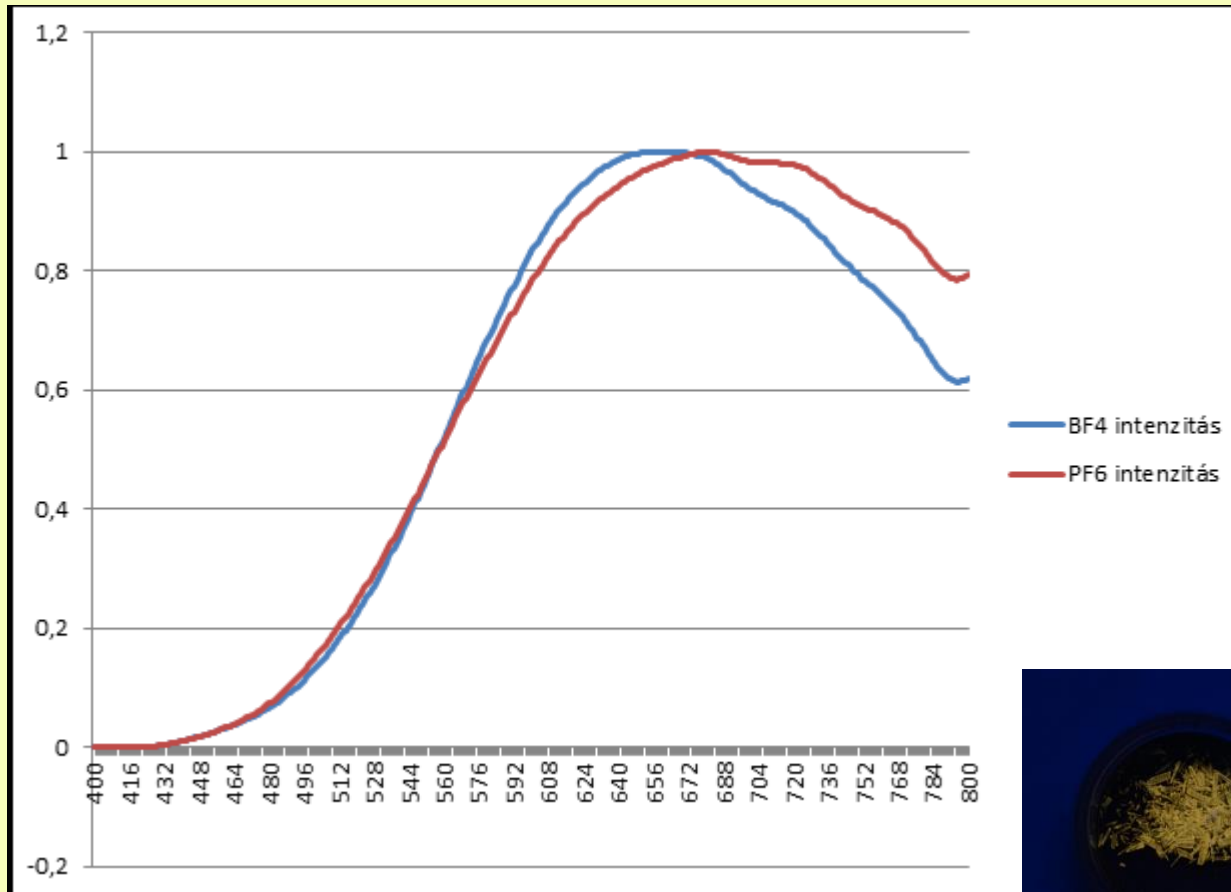
365 nm



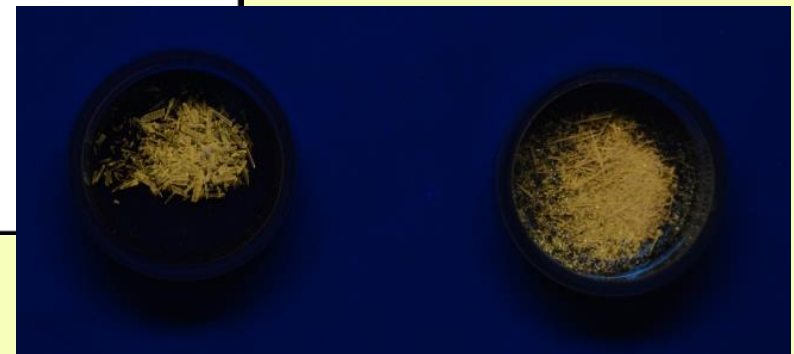
Lumineszcencia spektrofotometria

- A spektroszkópia alapelve
- Méréseink
 - 312/365 nm
 - 77K/szobahőmérséklet
 - mechanikai erőhatás után

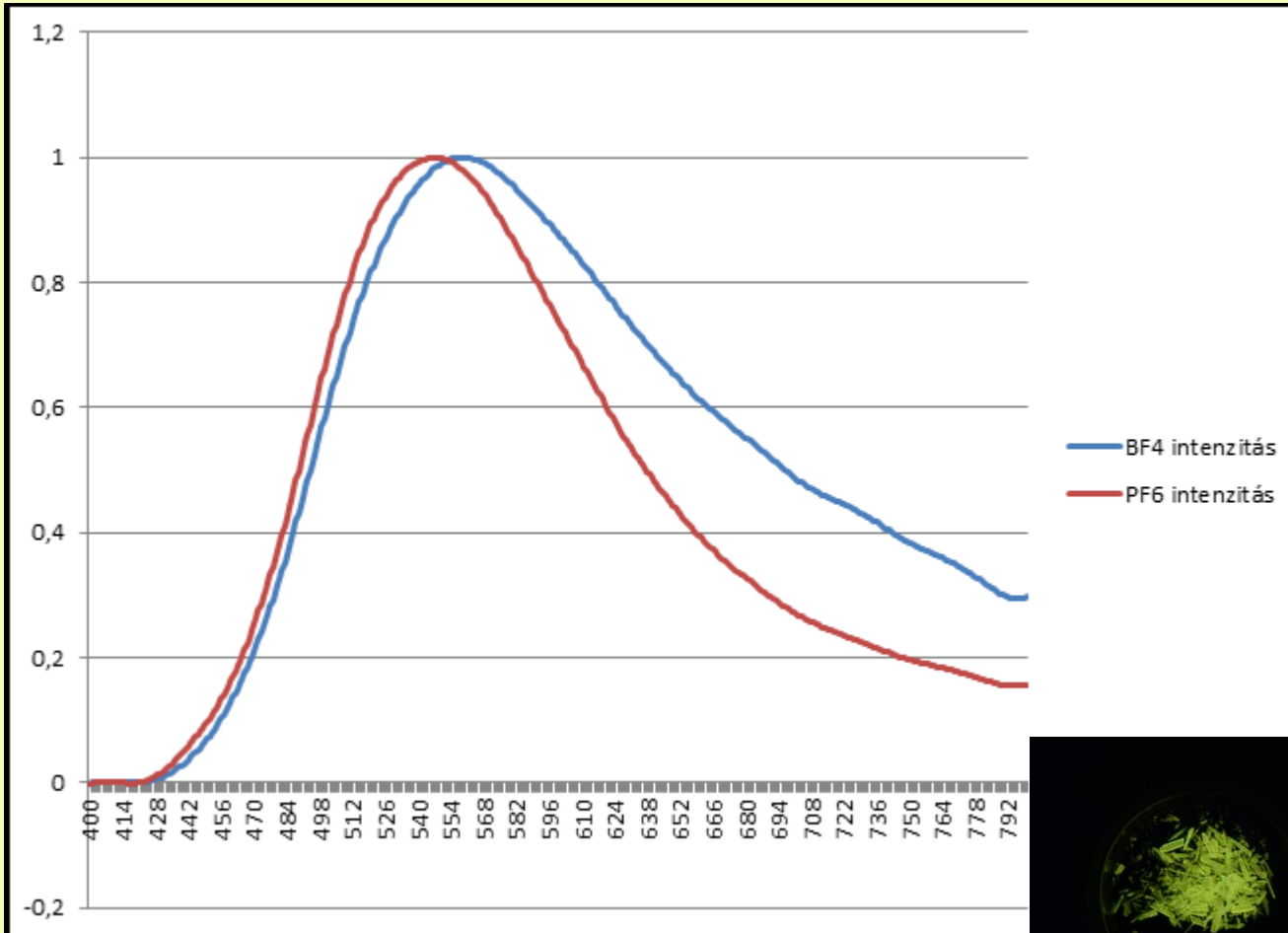
Spektrumok (312 nm)



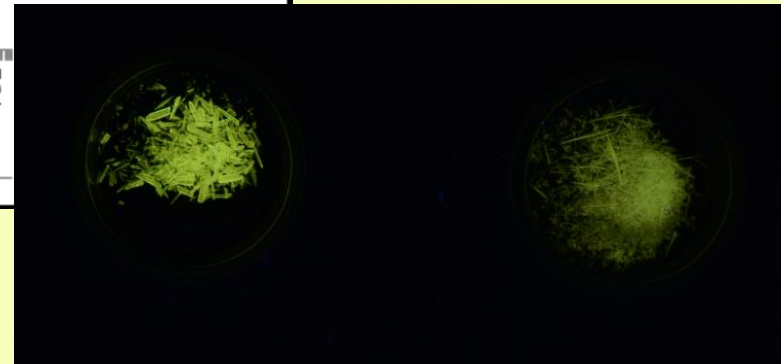
narancssárga



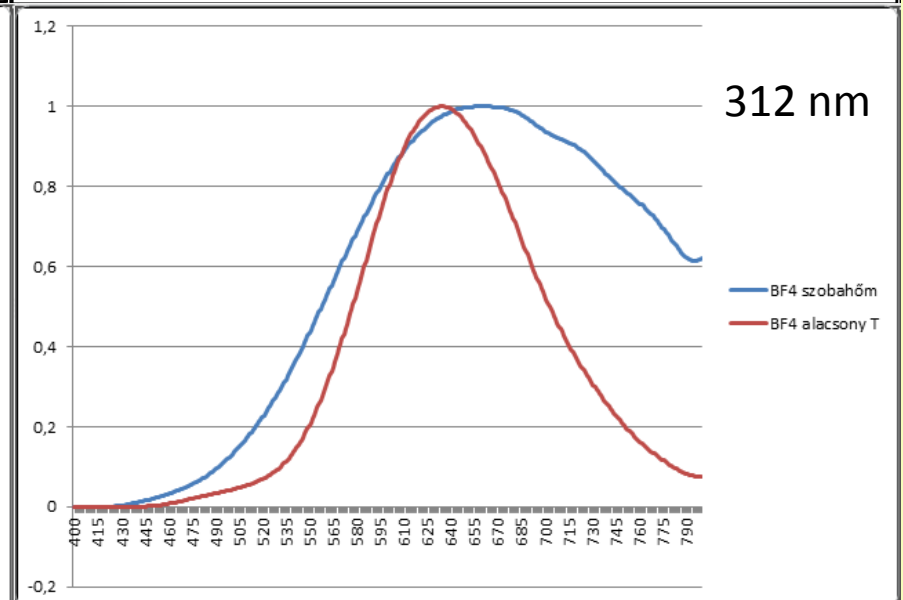
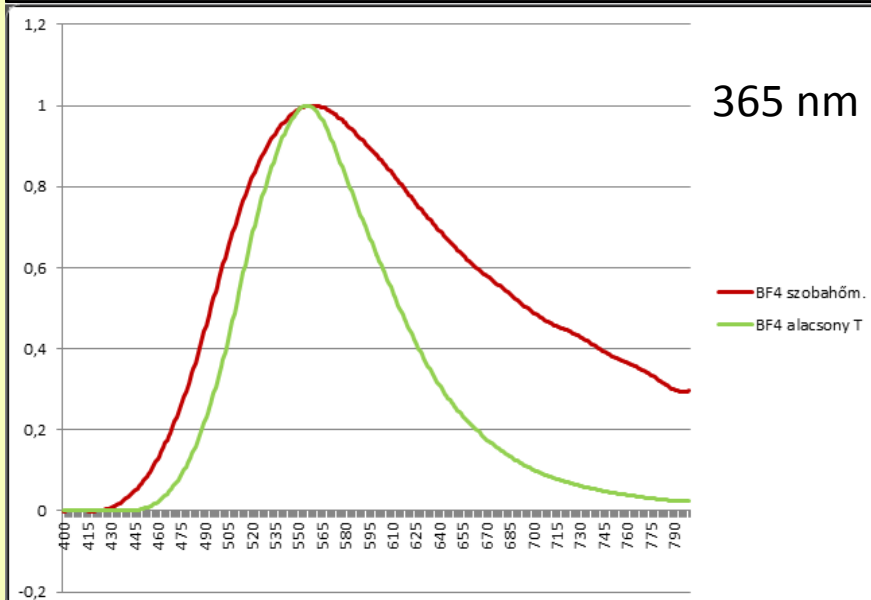
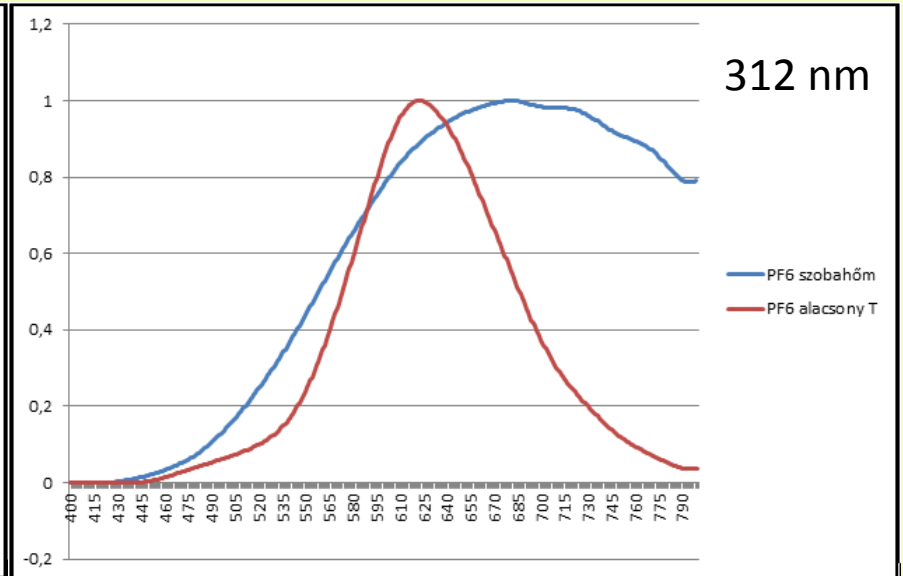
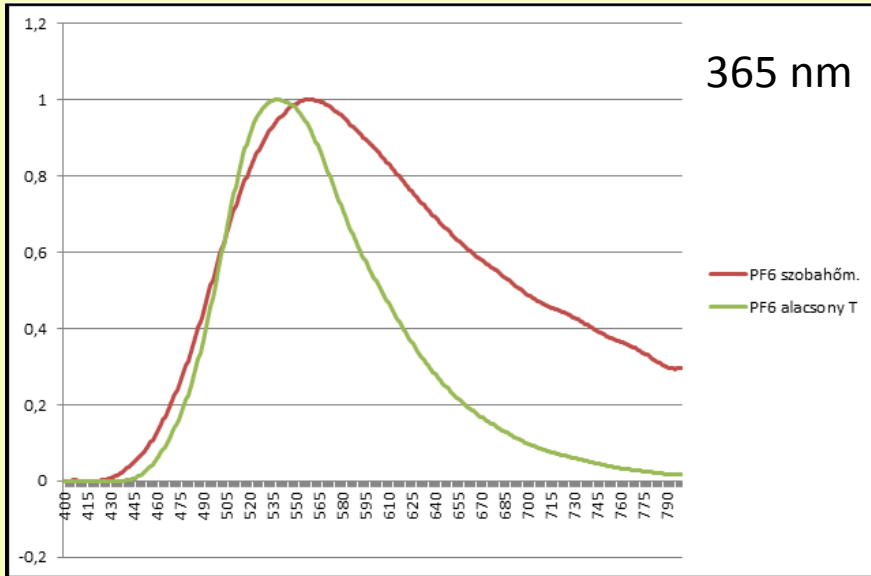
Spektrumok (365 nm)



Zöld



Spektrumok (különböző T)



Spektrumok

Mechanikai erőhatás
előtt és után

