

Course description

Course Title Modern Aspects of Inorganic Chemistry, Fluorine Chemistry Aspectos Modernos de Química Inorgânica, Química de Flúor		
Type/Attendance Time Lecture: 1 hour per week Tutorial: 0.5 hour per week	Credit points (ECTS) 2	Type of Examination Examination 120 min.
Recommended Prerequisites none		
Content Production, properties, structure and importance of elemental fluorine and fluorides. <ol style="list-style-type: none"> 1. Elementary fluorine 2. Hydrogen fluoride 3. Ionic fluorides 4. Molecular fluorides, BF_3 to BiF_3 5. Chalcogen fluorides 6. Halogen and noble gas fluorides 7. Fluorides of transition metals, fluorides of lanthanides and actinides 8. Perfluorinated organic compounds 9. Fluoro-aromatics 10. Selective fluorination 11. CF_3 compounds 12. Fluoropolymers 13. Fluorofullerenes 		
Conteúdo Produção, propriedades, estrutura e importância de flúor elementar e fluoretos. <ol style="list-style-type: none"> 1. Flúor elementar 2. Fluoreto de hidrogênio 3. Fluoretos iônicos 4. Fluoretos moleculares, BF_3 a BiF_3 5. Fluoretos de calcogênios 6. Fluoretos de halogênios e gases nobres 7. Fluoretos de metais de transição, fluoretos de lantanídeos e actinídeos 8. Compostos orgânicos perfluorinados 9. Flúor-aromáticos 10. Fluorinação seletiva 11. Compostos CF_3 12. Fluoropolímeros 13. Fluorfulerenos 		