

Scholarly and Research activity

The undergraduate program offers modern educational facilities as well as cutting edge equipment to emphasize both depth and breadth in learning. The department possesses over 100 types of equipment, such as IR, UV-VIS, and NMR spectroscopy machines, which play crucial roles in the students' education and research. Topics of research include, liquid structure and dynamics, membrane transport, statistical dynamics, molecular structure and property correlation, quantum chemistry, reaction dynamics, polymer properties, molecular adsorption and catalysis, synthesis and structural analysis of inorganic and organic materials, drug activity, biochemistry, synthesis of natural products, novel methods of organic synthesis, development of novel monomer and polymer structures, and many other scholarly and application-based fields. Various equipment is used to support such research, including GC, HPLC, GPC, 600, 400 and 300 MHz FT-NMR, ESR, ESCA/AUGER, LEED VUV, UV/VIS, IR, LC/MS, and GC/MS, and the collection of resources being continually expanded to facilitate ongoing research.