

RECENT WORK IN THE PHOTOCHEMISTRY OF XENON FLUORIDES

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Photochemical reactions in the system xenon-fluorine were studied in continuation of our work in this field. For this purpose a new type of sapphire-nickel photochemical reactor with much higher light efficiency was designed. Photochemical reactions between xenon, xenon difluoride or xenon tetrafluoride and fluorine in the gaseous as well as in the liquid state were investigated. Special emphasis was given to investigation of the photochemical dissociation of xenon hexafluoride. The influence of some reaction conditions, e.g. initial presence of reaction products, partial pressure of reactants etc., upon the course of the reaction will be discussed.