



Plasmachemie - ein aktuelles Teilgebiet der präparativen Chemie. Bildung und Eigenschaften von Carbosilanen

By Martin Schmeisser

VS Verlag Für Sozialwissenschaften Apr 2014, 2014. Taschenbuch. Book Condition: Neu. 244x170x5 mm. This item is printed on demand - Print on Demand Neuware - Plasma chemistry is realized as the universality of reactions occurring under plasma conditions. The topic discussed in this paper is confined to the application of plasmas for preparative chemistry purposes. Plasmachemical processes are estimated promising for the synthesis of endothermic, at room temperature metastable compounds, for the generation of new species by recombination of highly excited intermediates, or for enhancement of the efficiency of 'normal' reactions by temperature increase. A variety of plasmachemical reactions, some of intense technical interest, are quoted, following an arbitrary classification according to the experimental methods: [1] Arc discharges, especially plasma jet chemistry; [2] Glow discharges and silent discharges; [3] High frequency plasmas. Some new plasmachemical syntheses elaborated in the author's group are reported. JCF can be synthesized in good yield and high purity from C₂F₃ and J₂ as well as other reactants in a glow discharge reaction. Amines are partially converted to nitriles in low pressure plasmas. Favourable conditions for obtaining C F in an induction plasma have been worked out. Interesting 2 4 while not...



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