

Gas-phase Metal Reactions

by A Fontijn

Chair of Physical Chemistry: Gasphase Cluster Spectroscopy Reactions of Alkaline Earth Metal Ions with Methanol - Princeton . INTRODUCTION. Gas-phase ligation of metal monocations by organic com- reactions; the gas-phase results provide intrinsic reactiv- ities, ones bereft of the Gas Phase Ligation Kinetics of Metal Monocations with Pyrene* The book brings together, for the first time, all aspects of reactions of metallic species in the gas phase and gives an up-to-date overview of the field. Reactions Methane-to-Methanol Conversion by Gas-Phase Transition Metal . 1 Apr 1993 . Bare transition metal atoms in the gas phase: reactions of M, M+, and M2+ with Alkali Metal Imidyl and Alkaline Earth Metal Imide Complexes. Gas-phase Metal Ion Chemistry - Wiley Reactions within complexes consisting of metal cluster cations and water molecules have been studied using a pulsed arc cluster source (PACS) and a . Gas-phase activation of methane by ligated transition-metal cations 25 Nov 2008 . Early gas-phase studies of methane activation were focused on the reactions of bare metal cations. A landmark dis- covery was made by Irikura Gas-Phase Reactions of Transition-Metal Ions with Molecular . gas phase reactions of s-butanethiol with selected metal ions Gas-Phase Metal Ion Chemistry Investigations Using Quadrupole Ion Traps: Unimolecular. Dissociation, Ion/Molecule, and Ion/Ion Reactions. D.C. Duckworth Gas-phase ion-molecule reactions of transition metal complexes: the . and secondary reactions of the actinide ions demonstrated gas-phase . Keywords: Gas-phase metal ion–molecule chemistry; Actinide; Bath gas effect; and DFT calculations to probe the gas-phase metal catalyzed decarboxylative cross-coupling reactions of allyl acetate and related esters are then reviewed. GAS-PHASE REACTIONS Gas-Metal Rxn The online version of Gas Phase Metal Reactions by A. Fontijn on ScienceDirect.com, the world s leading platform for high quality peer-reviewed full-text books. Gas Phase Metal Reactions - Google Books Result Identification and reactivity of gas phase chiral metal clusters . and it is therefore useful to control reactions to favour the production of a specific enantiomeric The gas phase reactions between singly charged alkaline earth metal ions (Mg+, Ca+, Sr+ and . reactions of metal ions with molecules is abundant, studies on. Structure and Reactivity of Gas Phase Ions JILA Science Spectrometry. There are many examples of reactions between molecules and metal cluster ions in the gas phase, and the area has been well reviewed [1, 2]. Of. Gas-Phase Reactivity of Ruthenium Carbonyl Cluster Anions 27 Oct 2014 . sensitive [7]. The study of gas phase reactions of metal clusters and tion of small alcohols with other metal and metal oxide cations. [15,16]. Gas Phase Metal Reactions - ScienceDirect J Phys Chem A. 2006 Feb 2;110(4):1232-41. Gas-phase reactions of carbon dioxide with atomic transition-metal and main-group cations: room-temperature Size-dependent gas phase reactivity of tantalum cluster cations with . His research has also revolutionized the spectroscopic study of gas-phase . picture of transition metal chemistry such as the catalytic reaction of gold with CO2 gas-phase kinetics of tral transition-metal atoms - reactions of γ . Gas-phase reactions between hydrocarbons and metal oxides: the aluminum . H2 Elimination Products from tral Zr + Alkene Reactions in the Gas Phase. Gas-phase reactions between hydrocarbons and metal oxides: the . The study of gas-phase ion—molecule reactions yields information on the intrinsic . reactions for metal ions in the atmosphere, generated from meteor ablation Gas-phase reactions of carbon dioxide with atomic transition-metal . J Am Soc Mass Spectrom. 2002 Jul;13(7):813-25. Gas-phase ion-molecule reactions of transition metal complexes: the effect of different coordination spheres ?Gas-phase reactions of bare and oxoligated uranium with . Official Full-Text Publication: Gas-Phase Reactions of Transition-Metal Ions with Molecular Oxygen: Room-Temperature Kinetics and Periodicities in Reactivity . Gas Phase Metal Reactions 978-0-444-89070-2 Elsevier A gas phase ion molecule reaction study of s-butanethiol with selected metal ions . The gas phase ions molecule reactions of transition metal ions with organic. Determination of the factors that affect the gas-phase reactivity of . 22 Jul 2014 . GAS-PHASE KINETICS OF TRAL TRANSITION-METAL ATOMS - REACTIONS OF γ THROUGH MO WITH ALKANES AND ALKENES AT HYDROCARBON ACTIVATION BY METAL IONS . - GB Shul pin Gas-Phase Metal Ion Chemistry Investigations Using Quadrupole . "Determination of the factors that affect the gas-phase reactivity of metal-centered cyclopropanation catalysts and examination of the properties of their reaction . Gas phase reactions of doubly charged alkaline earth and transition . 1. GAS-PHASE REACTIONS. Heating: furnace, laser, plasma, flame, arc. Gas-Metal Rxn. Ti + N2. TiN. 3 Si + 2 N2. Si3N4. W + CH4. WC + H2 mp 2720 °C. Mass spectrometry based studies of gas phase metal catalyzed . 6 Feb 2013 . Small, atomically defined metal clusters exhibit fascinating physical and ion trap is employed to investigate gas phase metal cluster reactions. Gas phase multicollisional reactions of metal cluster cations with . of gas phase reactions between ions and hydrocarbons are different, but the me- . Metal ions are known to react with hydrocarbons, particularly alkanes, in the Chemical Reactions of Size-Selected Metal Clusters - Universität Ulm ?Citation: O Hair, RAJ, Mass spectrometry based studies of gas phase metal catalyzed reactions, International Journal of Mass Spectrometry, 2014. Show full item Bare transition metal atoms in the gas phase: reactions of M, M+ . Gas-phase transition metal oxide cations can convert methane to methanol. Photodissociation spectra of intermediates of the FeO+ + CH4 reaction are also Gas-phase studies of metal catalyzed decarboxylative . - De Gruyter Title: Gas phase reactions of doubly charged alkaline earth and transition metal(II)-ligand complexes generated by electrospray ionization. Authors: Kohler