

# Gas-phase Metal Reactions

by A Fontijn

Chemical Reactions of Size-Selected Metal Clusters - Universität Ulm 27 Oct 2014 . sensitive [7]. The study of gas phase reactions of metal clusters and reaction of small alcohols with other metal and metal oxide cations. [15,16]. Gas Phase Metal Reactions - ScienceDirect 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 Gas phase reactions of doubly charged alkaline earth and transition . 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 Metal Ion Chemistry - Wiley Official Full-Text Publication: Gas-Phase Reactions of Transition-Metal Ions with Molecular Oxygen: Room-Temperature Kinetics and Periodicities in Reactivity . Gas-Phase Reactions of Transition-Metal Ions with Molecular . Gas-phase reactions between hydrocarbons and metal oxides: the . Gas phase multicollisional reactions of metal cluster cations with . 1. GAS-PHASE REACTIONS. Heating: furnace, laser, plasma, flame, arc. Gas-Metal Rxn. Ti + N<sub>2</sub>. TiN. 3 Si + 2 N<sub>2</sub>. Si<sub>3</sub>N<sub>4</sub>. W + CH<sub>4</sub>. WC + H<sub>2</sub> mp 2720 °C.

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A gas phase ion molecule reaction study of s-butanethiol with selected metal ions . The gas phase ion molecule reactions of transition metal ions with organic. Gas Phase Metal Reactions 978-0-444-89070-2 Elsevier The gas phase reactions between singly charged alkaline earth metal ions (Mg<sup>+</sup>, Ca<sup>+</sup>, Sr<sup>+</sup> and . reactions of metal ions with molecules is abundant, studies on. Gas-phase studies of metal catalyzed decarboxylative . - De Gruyter Gas Phase Metal Reactions - Google Books Result and DFT calculations to probe the gas-phase metal catalyzed decarboxylative cross-coupling reactions of allyl acetate and related esters are then reviewed. Determination of the factors that affect the gas-phase reactivity of . Gas-phase transition metal oxide cations can convert methane to methanol. Photodissociation spectra of intermediates of the FeO<sup>+</sup> + CH<sub>4</sub> reaction are also HYDROCARBON ACTIVATION BY METAL IONS . - GB Shulpin Gas-phase reactions between hydrocarbons and metal oxides: the aluminum . H<sub>2</sub> Elimination Products from tral Zr + Alkene Reactions in the Gas Phase. Gas-Phase Metal Ion Chemistry Investigations Using Quadrupole . The online version of Gas Phase Metal Reactions by A. Fontijn on ScienceDirect.com, the worlds leading platform for high quality peer-reviewed full-text books. Reactions of Alkaline Earth Metal Ions with Methanol - Princeton . 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 reactions of bare and oxoligated uranium 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 Gas-phase activation of methane by ligated transition-metal cations 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 Gas-phase ion-molecule reactions of transition metal complexes: the . His research has also revolutionized the spectroscopic study of gas-phase . picture of transition metal chemistry such as the catalytic reaction of gold with CO<sub>2</sub> Structure and Reactivity of Gas Phase Ions JILA Science 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 reactions of carbon dioxide with atomic transition-metal . 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 Bare transition metal atoms in the gas phase: reactions of M, M<sup>+</sup> . 22 Jul 2014 . GAS-PHASE KINETICS OF TRAL TRANSITION-METAL ATOMS - REACTIONS OF Y THROUGH MO WITH ALKANES AND ALKENES AT Methane-to-Methanol Conversion by Gas-Phase Transition Metal . "Determination of the factors that affect the gas-phase reactivity of metal-centered cyclopropanation catalysts and examination of the properties of their reaction . 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 Ligation Kinetics of Metal Monocations with Pyrene\* and secondary reactions of the actinide ions demonstrated gas-phase . Keywords: Gas-phase metal ion–molecule chemistry; Actinide; Bath gas effect; Chair of Physical Chemistry: Gasphase Cluster Spectroscopy The study of gas-phase ion—molecule reactions yields information on the intrinsic . reactions for metal ions in the atmosphere, generated from meteor ablation Size-dependent gas phase reactivity of tantalum cluster cations with . 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 kinetics of tral transition-metal atoms - reactions of y . Mass spectrometry based studies of gas phase metal catalyzed . Title: Gas phase reactions of doubly charged alkaline earth and transition metal(II)-ligand complexes generated by electrospray ionization. Authors: Kohler 1 Apr 1993 . Bare transition metal atoms in the gas phase: reactions of M, M<sup>+</sup>, and M<sup>2+</sup> with Alkali Metal Imidyl and Alkaline Earth Metal Imide Complexes. GAS-PHASE REACTIONS Gas-Metal Rxn 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 Gas-Phase Metal Ion Chemistry Investigations Using Quadrupole Ion Traps: Unimolecular. Dissociation, Ion/Molecule, and Ion/Ion Reactions. D.C. Duckworth gas phase reactions of s-butanethiol with selected metal ions ?Citation: OHair, RAJ, Mass spectrometry based studies of gas phase metal catalyzed reactions, International Journal of Mass Spectrometry, 2014. Show full item