Tdn

1981

Ta_6

(кластеры переход. металлов).

теорий.

расчёт.

Mueller Hans., et al.

Z. Phys. Chem., (Leipzig) 1981, 262(6), 1073-1088.

(см. M_6; III)

Тап
n<20

1990

Zheng Lansen,
Yang Shihe.
Wuti Neiyxee Xuebao
1990, 6(3), 272-6.

Энергия
связи

(Сер. ● Сол; III)

Ta$_n^+$

1993

$3 \leq n \leq 64$

119: 234505w **Ionization potentials of tantalum clusters with three to 64 atoms.** Collings, B. A.; Rayner, D. M.; Hackett, P. A. (Steacie Inst. Mol. Sci., Natl. Res. Counc. Canada, Ottawa, ON Can. K1A 0R6). *Int. J. Mass Spectrom. Ion Processes* 1993, 125(2-3), 207-14 (Eng). The threshold ionization potentials for Ta_{3-64} and Ta_nO have been obtained from their photoionization efficiency spectra. The results show substantial variation in the ionization potentials as a function of n (no. of atoms per cluster) for n < 20. The ionization potentials for two isomers of Ta_{12} have also been measured. A comparison of the results to the spherical drop model has shown poor agreement. This is thought to result from the failure of the spherical drop model to include the developing geometrical and electronic structure of the clusters with increasing size. Bond dissocn. energies for Ta_{3-64} have also been estd.

Э. спектр фотоион.

(4) Ta_nO

C. A. 1993, 119, N 22

Ta

(JM · 3997)

1999

n=22

Masaki Sakurai et al.,

J. Chem. Phys., 1999, 111,

N1, 235...

Magic numbers in transition metal (Fe, Ti, Zr, Nb and Ta) clusters