

**Ionization cross sections of small cationic carbon clusters in high-energy collisions with helium atoms and stability of multiply charged species**  
**MEZDARI F, WOHRER-BEROFF K, CHABOT M, et al.**  
**PHYSICAL REVIEW A**  
**72 (3): Art. No. 032707 SEP 2005**

ANDERSEN JU On the concept of temperature for a small isolated system JOURNAL OF CHEMICAL PHYSICS 114 : 6518 2001

BARAT M Collision induced fragmentation of small ionic sodium clusters: Competition between electronic and impulsive mechanisms JOURNAL OF CHEMICAL PHYSICS 110 : 10758 1999

BLANKSBY SJ Conversion of linear to rhombic C-4 in the gas phase: A joint experimental and theoretical study JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 122 : 7105 2000

BRECHIGNAC C DIRECT OBSERVATION OF CHARGE-EXCHANGE COLLISIONS BETWEEN MASS-SELECTED NAN<sup>+</sup> CLUSTERS AND CS ATOMS PHYSICAL REVIEW LETTERS 61 : 314 1988

CAMPBELL EEB Fullerene reactions REPORTS ON PROGRESS IN PHYSICS 63 : 1061 2000

CHABOT M Multi-ionization cross-sections of small ionic carbon clusters by particle impact as a tool to investigate their shapes EUROPEAN PHYSICAL JOURNAL D 14 : 5 2001

CHABOT M Shape analysis of current pulses delivered by semiconductor detectors: A new tool for fragmentation studies of high velocity atomic clusters and molecules NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS 197 : 155 2002

CLAYTON DD GAMMA-RAYS, COSMIC-RAYS, AND EXTINCT RADIOACTIVITY IN MOLECULAR CLOUDS ASTROPHYSICAL JOURNAL 451 : 681 1995

DEUTSCH H Calculated absolute cross section for the electron-impact ionisation of simple molecular ions INTERNATIONAL JOURNAL OF MASS SPECTROMETRY 223 : 639 2003

DIAZTENDEROS COMMUNICATION

DIAZTENDEROS Structure, dissociation energies, and harmonic frequencies of small doubly charged carbon clusters C-n(2+) (n=3-9) JOURNAL OF PHYSICAL CHEMISTRY A 106 : 10782 2002

DUA S Atom scrambling of linear C-5 in the gas phase: a joint experimental and theoretical study JOURNAL OF PHYSICAL CHEMISTRY A 106 : 1374 2002

EHLICH R Fragmentation of fullerenes in collisions with atomic and molecular targets JOURNAL OF CHEMICAL PHYSICS 104 : 1900 1996

HOGREVE H The carbon pentamer dication C-5(2+): Toward thermochemical stability JOURNAL OF CHEMICAL PHYSICS 119 : 8849 2003

HOGREVE H AB-INITIO STUDY OF THE DICATION CARBON TRIMER C-3(2+) JOURNAL OF CHEMICAL PHYSICS 102 : 3281 1995

HOGREVE H Stability properties of C-4(2+) JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM 532 : 81 2000

KASUYA A TRANSIENT-CHEMICAL FORMS OF MOLECULAR-IONS EMITTED FROM A GRAPHITE SURFACE BY N-2 LASER EXCITATION PHYSICAL REVIEW B 28 : 6571 1983

LARSEN MC Fragmentation of fast positive and negative C-60 ions in collisions with rare gas atoms EUROPEAN PHYSICAL JOURNAL D 5 : 283 1999

LEBRUN T IONIZATION AND MULTIFRAGMENTATION OF C-60 BY HIGH-ENERGY, HIGHLY-CHARGED XE IONS PHYSICAL REVIEW LETTERS 72 : 3965 1994

LEPINE F THESIS U LYON : 2003

LEQUEUX J INTERSTELLAR-MOLECULES PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS 200 : 241 1991

LIFSHITZ C Carbon clusters INTERNATIONAL JOURNAL OF MASS SPECTROMETRY 200 : 423 2000

LOUC S Electron capture in the collision of mass-selected hydrogen-cluster ions with helium atoms PHYSICAL REVIEW A 58 : 3802 1998

MARTINET G Fragmentation of highly excited small neutral carbon clusters PHYSICAL REVIEW LETTERS 93 : Art. No. 063401 2004

MARTINET G THESIS U PARIS SUD : 2004

MENELLA V ASTROPHYS J 587 : 727 2003

MEZDARI F UNPUB

MOORE CE ATOMIC ENERGY LEVELS : 1971

OHNO M Theoretical study of the valence ionization energies and electron affinities of linear C-2n+1 (n=1-6) clusters JOURNAL OF CHEMICAL PHYSICS 106 : 3258 1997

OPITZ J Electronic excitation in H+-C-60 collisions: Evaporation and ionization PHYSICAL REVIEW A 62 : Art. No. 022705 2000

PARGELLIS AN ESTIMATING CARBON CLUSTER BINDING-ENERGIES FROM MEASURED CN DISTRIBUTIONS, N LESS-THAN-OR-EQUAL-TO 10 JOURNAL OF CHEMICAL PHYSICS 93 : 2099 1990

RENKOSTER A PHYS REV A 64 : 2001

RIENSTRAKIRACOF.J J CHEM PHYS 102 : 231 2002

ROUSSELOT P A fluorescence model of the C-3 radical in comets ASTRONOMY AND ASTROPHYSICS 368 : 689 2001

SANCHEZ G 8 EPS C AT MOL PHYS : 2004

SEVIER KD DATA NUCL DATA TABLE 24 : 344 1979

SIEGMANN B Multiple ionization of diatomic molecules in collisions with 50-300-keV hydrogen and helium ions PHYSICAL REVIEW A 66 : Art. No. 052701 2002

SPITZER L HEATING OF H I REGIONS BY ENERGETIC PARTICLES ASTROPHYSICAL JOURNAL 152 : 971 1968

TOBUREN LH EXPERIMENTAL AND THEORETICAL-STUDY OF THE ELECTRON-SPECTRA IN 66.7-350-KEV/U C+ + HE COLLISIONS PHYSICAL REVIEW A 42 : 5338 1990

TSUCHIDA H Cross sections for ionization and fragmentation of C-60 by fast H+ impact JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 31 : 5383 1998

VONHELDEN G STRUCTURES AND ENERGIES OF SMALL CARBON CLUSTERS - WHAT EXPERIMENT AND THEORY HAVE TO SAY ABOUT C-8(+), C-9(+) AND C-10(+) INTERNATIONAL JOURNAL OF MASS SPECTROMETRY AND ION PROCESSES 138 : 33 1994

WOHRER K Dissociative and non-dissociative electron capture in medium-velocity cluster-atom collisions; evidence of contributions due to multi-electron processes JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 33 : 4469 2000

WOHRER K Swift cluster-atom collisions: Experiment and model calculations JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 29 : L755 1996

WOHRER K MODEL-CALCULATIONS OF MULTI-IONIZATION CROSS-SECTIONS IN HIGH-VELOCITY ION CLUSTER COLLISIONS NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS 88 : 174 1994

WOHRER K MODEL-CALCULATIONS OF MULTIELECTRON IONIZATION OF O<sub>2</sub> MOLECULES BY FAST-HEAVY-ION IMPACT PHYSICAL REVIEW A 48 : 4784 1993

WOHRER K A method for "on-line" determination of beam-jet overlaps; application to cluster fragmentation studies REVIEW OF SCIENTIFIC INSTRUMENTS 71 : 2025 2000