

Fragmentation of multiply charged hydrocarbon molecules C(n)H(q+) (n <= 4, q <= 9) produced in high-velocity collisions: Branching ratios and kinetic energy release of the H(+) fragment

Beroff K. ; Van-Oanh N. T.; et al., PHYSICAL REVIEW A 84(3) 032705 (2011)

Amitay Z; et al. Dissociative recombination of CH+: Cross section and final states PHYSICAL REVIEW A 54 (5) 4032 DOI: 10.1103/PhysRevA.54.4032 1996

Baldit E; Saugout S; Cornaggia C Coulomb explosion of N-2 using intense 10-and 40-fs laser pulses PHYSICAL REVIEW A 71 (2) 021403 DOI: 10.1103/PhysRevA.71.021403 2005

Bannister AE; Krause HF; Vane CR; et al. Electron-impact dissociation of CH(+) ions: Measurement of C(+) fragment ions PHYSICAL REVIEW A 68 (4) 042714 DOI: 10.1103/PhysRevA.68.042714 2003

BUTLER SE; GUBERMAN SL; DALGARNO A RADIATIVE CHARGE-TRANSFER BETWEEN H AND C++, C+++, AND N++ PHYSICAL REVIEW A 16(2) 500 DOI: 10.1103/PhysRevA.16.500 1977

CEDERBAUM LS ADV CHEM PHYS 36 205 DOI: 10.1002/9780470142554.ch4 1977

CEDERBAUM LS; DOMCKE W; SCHIRMER J; et al. CORRELATION-EFFECTS IN THE IONIZATION OF MOLECULES - BREAKDOWN OF THE MOLECULAR-ORBITAL PICTURE ADVANCES IN CHEMICAL PHYSICS 65 115 DOI: 10.1002/9780470142899.ch3 1986

Chabot M; Della Negra S; Lavergne L; et al. 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(1-2) 155 DOI: 10.1016/S0168-583X(02)01309-5 2002

Chabot M.; Mezdari F.; Beroff K.; et al. Scaling Law for the Partitioning of Energy in Fragmenting Multicharged Carbon Clusters PHYSICAL REVIEW LETTERS 104(4) 043401 DOI: 10.1103/PhysRevLett.104.043401 2010

Cornaggia C. Ultrafast Coulomb explosion imaging of molecules LASER PHYSICS 19(8) 1660 DOI: 10.1134/S1054660X09150122 2009

De Sankar; Rajput Jyoti; Roy A.; et al. Ion-induced dissociation dynamics of acetylene PHYSICAL REVIEW A 77(2) 022708 DOI: 10.1103/PhysRevA.77.022708 2008

Gagnon J.; Lee Kevin F.; Rayner D. M.; et al. Coincidence imaging of polyatomic molecules via laser-induced Coulomb explosion JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 41(21) 215104 DOI: 10.1088/0953-4075/41/21/215104 2008

Gu JP; Hirsch G; Buenker RJ; et al. Charge transfer in collisions of C2+ ions with H atoms at low-keV energies: A possible bound state of CH2+ PHYSICAL REVIEW A 57(6) 4483 DOI: 10.1103/PhysRevA.57.4483 1998
HASHIMOTO K; IWATA S; OSAMURA Y AN MCSCF STUDY OF THE LOW-LYING STATES OF C2H+ CHEMICAL PHYSICS LETTERS 174(6) 649 DOI: 10.1016/0009-2614(90)85502-4 1990

KRUMMACHER S; SCHMIDT V; WUILLEUMIER F; et al. INNER-SHELL PHOTOIONISATION IN MOLECULES - THE CARBON-MONOXIDE CASE JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 16(10) 1733 DOI: 10.1088/0022-3700/16/10/010 1983

LAMPTON M; CARLSON C LOW-DISTORTION RESISTIVE ANODES FOR 2-DIMENSIONAL POSITION-SENSITIVE MCP SYSTEMS REVIEW OF SCIENTIFIC INSTRUMENTS 50(9) 1093 DOI: 10.1063/1.1135990 1979

LANGHOFF PW; LANGHOFF SR; RESCIGNO TN; et al. THEORETICAL-STUDIES OF INNER-VALENCE-SHELL PHOTO-IONIZATION CROSS-SECTIONS IN N-2 AND CO CHEMICAL PHYSICS 58(1) 71 DOI: 10.1016/0301-0104(81)80047-X 1981

MARTIN RL; SHIRLEY DA THEORY OF CORE-LEVEL PHOTOEMISSION CORRELATION STATE SPECTRA JOURNAL OF CHEMICAL PHYSICS 64(9) 3685 DOI: 10.1063/1.432679 1976

MARTIN RL; SHIRLEY DA THEORY OF NEON 1S CORRELATION PEAK INTENSITIES PHYSICAL REVIEW A 13(4) 1475 DOI: 10.1103/PhysRevA.13.1475 1976

Mathur D Structure and dynamics of molecules in high charge states PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS 391(1-2) 1 DOI: 10.1016/j.physrep.2003.10.016 2004

Matsuda Akitaka; Fushitani Mizuho; Takahashi Eiji J.; et al. Visualizing hydrogen atoms migrating in acetylene dication by time-resolved three-body and four-body Coulomb explosion imaging PHYSICAL CHEMISTRY CHEMICAL PHYSICS 13(19) 8697 DOI: 10.1039/c0cp02333g 2011

MOORE CE ATOMIC ENERGY LEVELS 1 1971

NAKATSUJI H; SAITO S EXCITED AND IONIZED STATES OF RUO4 AND OSO4 STUDIED BY SAC AND SAC-CI THEORIES INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY 39(1) 93 DOI: 10.1002/qua.560390110 1991

NENNER I VUV SOFT XRAY PHOTOI 291 1996

I; VAGER Z; NAAMAN R STRUCTURE OF C-3 AS MEASURED BY THE COULOMB-EXPLOSION TECHNIQUE PHYSICAL REVIEW LETTERS 56(15) 1559 DOI: 10.1103/PhysRevLett.56.1559 1986

Rajgara FA; Krishnamurthy M; Mathur D; et al. Coulombic and non-Coulombic fragmentation of highly charged benzene JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 37(8) 1699 DOI: 10.1088/0953-4075/37/8/011 2004

Rajgara FA; Krishnamurthy M; Mathur D; et al. Fragmentation dynamics of CS₂^{q+} (q=3-10) molecular ions PHYSICAL REVIEW A 64(3) 032712 DOI: 10.1103/PhysRevA.64.032712 2001

Rajput Jyoti; Safvan C. P. Kinetic energy distributions in ion-induced CO fragmentation: Signature of shallow states in multiply charged CO PHYSICAL REVIEW A 75(6) 062709 DOI: 10.1103/PhysRevA.75.062709 2007

Schlachter AS; Sant'Anna MM; Covington AM; et al. Lifetime of a K-shell vacancy in atomic carbon created by 1s → 2p photoexcitation of C(+) JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 37(5) L103 DOI: 10.1088/0953-4075/37/5/L03 2004

Scully SWJ; Aguilar A; Emmons ED; et al. K-shell photoionization of Be-like carbon ions: experiment and theory for C²⁺ JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 38(12) 1967 DOI: 10.1088/0953-4075/38/12/011 2005

Tachino Carmen A.; Galassi Mariel E.; Rivarola Roberto D. Role of Auger-type emission from diatomic molecular targets interacting with fast multicharged ions PHYSICAL REVIEW A 80(1) 014701 DOI: 10.1103/PhysRevA.80.014701 2009

Tarantelli Francesco The calculation of molecular double ionization spectra by Green's functions CHEMICAL PHYSICS 329(1-3) 11 DOI: 10.1016/j.chemphys.2006.07.001 2006

Tarisien M; Adoui L; Fremont F; et al. Ion-induced molecular fragmentation: beyond the Coulomb explosion picture JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 33(1) L11 DOI: 10.1088/0953-4075/33/1/102 2000

Tuna T.; Chabot M.; Pino T.; et al. Fragmentation branching ratios of highly excited hydrocarbon molecules C(n)H and their cations C(n)H(+) (n ≤ 4) JOURNAL OF CHEMICAL PHYSICS 128(12) 124312 DOI: 10.1063/1.2884862 2008

WERNER HJ MOLPRO VERSION 2010 2010

WERNER U; BECKORD K; BECKER J; et al. ION-IMPACT-INDUCED FRAGMENTATION OF WATER-MOLECULES 7th International Conference on the Physics of Highly Charged Ions (HCI-94) VIENNA, AUSTRIA 1994 NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS 98(1-4) 385 DOI: 10.1016/0168-583X(95)00152 1995

Werner U; SiegTmann B; Mann R; et al. Kinetic energy release distributions in the fragmentation of O-2 molecules induced by fast highly charged ions 10th International Conference on the Physics of Highly Charged Ions (HCI 2000) CLARK KERR CAMPUS, BERKELEY, CALIFORNIA 2000 Amer Vacuum Soc; Lawrence Livermore Natl Lab PHYSICA SCRIPTA T92 244 DOI: 10.1238/Physica.Topical.092a00244 2001

Werner U; Kabachnik NM; Kondratyev VN; et al. Orientation effects in multiple ionization of molecules by fast ions PHYSICAL REVIEW LETTERS 79(9) 1662 DOI: 10.1103/PhysRevLett.79.1662 1997

WOHRER K; WATSON RL MODEL-CALCULATIONS OF MULTIELECTRON IONIZATION OF O2 MOLECULES BY FAST-HEAVY-ION IMPACT PHYSICAL REVIEW A 48(6) 4784 DOI: 10.1103/PhysRevA.48.4784 1993

Wohrer K; Chabot M; Fosse R; et al. A method for "on-line" determination of beam-jet overlaps; application to cluster fragmentation studies REVIEW OF SCIENTIFIC INSTRUMENTS 71(5) 2025 DOI: 10.1063/1.1150572 2000

Wright JS; DiLabio GA; Matussek DR; et al. Dissociation of molecular chlorine in a Coulomb explosion: Potential curves, bound states, and deviation from Coulombic behavior for Cl_2^{n+} ($n=2,3,4,6,8,10$) PHYSICAL REVIEW A 59(6) 4512 DOI: 10.1103/PhysRevA.59.4512 1999

Yang J.; Qi J. Y.; Chen M. D.; et al. Parity alternation of linear ground-state hydrogenated cationic carbon clusters HC_n^+ ($n=1-10$) INTERNATIONAL JOURNAL OF MASS SPECTROMETRY 272(2-3) 165 DOI: 10.1016/j.ijms.2007.12.004 2008