

Binding Energies of Carbon Species Which Appeared Under Vacuum After Cleaning with an Argon Ion Beam

1 H Hydrogen																	18 He Helium
	2											13	14	15	16	17	
3 Li Lithium	4 Be Beryllium											5 B Boron	6 C Carbon	7 N Nitrogen	8 O Oxygen	9 F Fluorine	10 Ne Neon
	282.3 284.4 ---											283.1 285.2 ---	284.3 284.8 ---				
11 Na Sodium	12 Mg Magnesium											13 Al Aluminum	14 Si Silicon	15 P Phosphorus	16 S Sulfur	17 Cl Chlorine	18 Ar Argon
	282.9 284.4 ---											282.2 285.1 ---	283.1 284.9 ---				
19 K Potassium	20 Ca Calcium	21 Sc Scandium	22 Ti Titanium	23 V Vanadium	24 Cr Chromium	25 Mn Manganese	26 Fe Iron	27 Co Cobalt	28 Ni Nickel	29 Cu Copper	30 Zn Zinc	31 Ga Gallium	32 Ge Germanium	33 As Arsenic	34 Se Selenium	35 Br Bromine	36 Kr Krypton
	281.3 284.6 287.3 ---	281.7 ---	281.8 ---	282.3 285.2 ---	282.8 284.9 ---	283.0 ---	283.0 284.4 ---	283.3 284.4 ---	283.7 284.9 ---	---	---	283.9 285.6 ---	---	284.5 284.5 ---	284.7 ---	284.2 ---	
37 Rb Rubidium	38 Sr Strontium	39 Y Yttrium	40 Zr Zirconium	41 Nb Niobium	42 Mo Molybdenum	43 Tc Technetium	44 Ru Ruthenium	45 Rh Rhodium	46 Pd Palladium	47 Ag Silver	48 Cd Cadmium	49 In Indium	50 Sn Tin	51 Sb Antimony	52 Te Tellurium	53 I Iodine	54 Xe Xenon
		281.3 ---	281.9 283.6 ---	282.6 284.9 ---	283.0 ---	*	na	284.0 285.8 ---	284.2 285.7 ---	---	---	284.9 ---	284.8 ---	284.4 ---	284.2 ---		
55 Cs Cesium	56 Ba Barium	57 La Lanthanum	72 Hf Hafnium	73 Ta Tantalum	74 W Tungsten	75 Re Rhenium	76 Os Osmium	77 Ir Iridium	78 Pt Platinum	79 Au Gold	80 Hg Mercury	81 Tl Thallium	82 Pb Lead	83 Bi Bismuth	84 Po Polonium	85 At Astatine	86 Rn Radon
			281.9 ---	282.6 284.6 ---	283.2 285.1 ---	283.6 285.0 ---		284.1 285.4 ---		285.8 287.8 ---	---	285.2 ---	285.2 ---	284.8 ---			
87 Fr Francium	88 Ra Radium	89 Ac Actinium															

Tentative Categories (assignments)

Carbide-like species 281.3 eV
 Hydrocarbon-like species 284.6 eV
 Carbonyl-like species 287.3 eV
 Carboxyl-like species 288.5 eV

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58 Ce Cerium	59 Pr Praseodym.	60 Nd Neodymium	61 Pm Promethium	62 Sm Samarium	63 Eu Europium	64 Gd Gadolinium	65 Tb Terbium	66 Dy Dysprosium	67 Ho Holmium	68 Er Erbium	69 Tm Thulium	70 Yb Ytterbium	71 Lu Lutetium
	282.0 ---				284.3 287.2 ---	281.4 ---			281.7 ---	281.7 ---	281.5 ---	---	281.6 284.6 ---
90 Th Thorium	91 Pa Protactinium	92 U Uranium	93 Np Neptunium	94 Pu Plutonium	95 Am Americium	96 Cm Curium	97 Bk Berkelium	98 Cf Californium	99 Es Einsteinium	100 Fm Fermium	101 Md Mendelev.	102 No Nobelium	103 Lr Lawrencium



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