Oxidation state of lithium species. XPS binding energies of lithium 1s electrons in salts, the metal and intercalated in molybdenum sulfide

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The binding energies of Li (1s) electron in a series of lithium salts, the metal, and lithium intercalated in molybdenum sulfide measured with respect to Au (4f7/2) agree with both the expected ionic character and oxidation state of lithium in the compounds. Thus, the binding energy increases with increasing charge on the observed atom. The Eb value (55.6 eV) as well as the sensitivity to air observed for lithium in the compound Li0.8MoS2 are similar to the metal.