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spectra have been

recorded by Suto and

Lee (1986) with a

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and an estimated

uncertainty in cross

sections of $\pm 10\%$, and

by Itoh et al. (1986)

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with a resolution of
0.035 eV and a
statistical uncertainty
in cross sections of
15%. More recently,
Cooper et al.
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is that
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measurements, being
of order $1/10$, do not
require the most

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intense light sources,
whereas acquiring
data on the products
of light interactions
with gaseous matter
(ions, electrons,
various coincidence
measurements) has
benefited
significantly with the
arrival of second- and
third-generation
synchrotrons. The
newer devices have

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also extended the energy range of the light sources to include the K-shells of the species discussed here. The newer light sources encouraged experimentalists to develop improved instrumentation. Thus, the determination of partial cross sections

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continues to be an active field, with more recent results in some cases superseding earlier ones. Where the accuracy of the absolute partial cross sections is deemed sufficient (less than five percent), numerical tables are included in this new work. In other cases,

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work in gas ion
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first study uses
tunable vacuum-
ultraviolet radiation

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