BIBLIOGRAPHY OF PHOTOABSORPTION CROSS SECTION DATA

by

R. D. Hudson
L. J. Kieffer

JILA Information Center Report No. 11

University of Colorado
Boulder, Colorado
September 30, 1970
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ABSTRACT

A bibliography of photoabsorption cross section data is presented. Only references which report a measured or calculated photoabsorption cross section (relative or normalized) in regions of continuous absorption are included. The bibliography is current as of January 1, 1970.
I. INTRODUCTION

In the past several years the Joint Institute for Laboratory Astrophysics Information Center, University of Colorado, Boulder, Colorado, has been engaged in a program to collect reports that contain data on low energy atomic collisions, to critically evaluate and produce comprehensive compilations of these data, and to compile up-to-date bibliographies. The first bibliography on photoabsorption cross section data to be produced by the Information Center was published as JILA Information Center Report #5 in April, 1968. This present report, the result of a collaborative effort between the Information Center and NASA-Manned Spacecraft Center, is the first updating of the original report.

Although the title of this report uses the term cross section we have, of course, included all papers that give absorption and ionization coefficients. The criterion that we have attempted to apply in our selection of the papers is that the data in the papers should be for wavelength regions of continuous absorption. For atoms, this clearly means those wavelength regions above the first ionization limit, indeed, until elastic scattering becomes important, the absorption and ionization continuum cross sections are identical. In the case of molecules this clear cut distinction cannot be made since we now have ionization and dissociation continua overlaid in many cases by discrete structure with variable efficiencies for preionization, predissociation and photoexcitation. We have therefore not restricted the wavelength range that was searched for data, but obviously the majority of the data are for the ultraviolet (10 to 3000 Å).

Several (about a dozen) standard works on photoabsorption and photoionization were used as primary sources for references. In addition, Physics Abstracts was searched back to 1940. The more current material was obtained from abstracting journals. The cutoff time for inclusion of references from these abstracting journals in this bibliography was March 1, 1970, but because of the time lag involved in the abstracting journals, some references to publications in the late part of 1969 may not be included. In addition to references from the formal scientific literature we have included theses, reports given at meetings, and company or agency reports which have been printed and circulated. However, reference is not made to material that is unavailable either through library facilities or government document centers. No classified material is included.

There is a tendency for authors to publish material which is identical to that which they have reported on at a meeting (the proceedings of which are printed and circulated) and also issued as a company or agency report. In some cases it is possible to verify that this is so and in those cases only one reference (the formal publication, if there is one) is kept in the bibliography. In most cases it is not possible to make such a precise distinction among such documents, since only some of the material may have been made available before. Because of this, there may be cases of duplication in the sense that there may be more than one
reference to the same original data. We have tried to keep this to a minimum consistent with our aim of collecting references to all published data.

Inclusion of a reference in this bibliography does not imply a value judgment about the accuracy of the information. We only assert that the reference reports a measured or calculated photoabsorption cross-section (or the equivalent). The question of the accuracy of the data is to be covered in separate published critical reviews (the first, on molecular photoabsorption cross section data, will be published soon by one of us, R.D.H.).

Description of the Bibliography Format

The Photoabsorption Cross Section Bibliography is divided into three main sections. The first section describes the data which are in the references included in the bibliography. The data are categorized by a hierarchy of descriptors in the following order:

1. Process (e.g., absorption, ionization, etc.)
2. Experimental or Theoretical
3. Normalized or Relative (The data are considered normalized if given in absolute units.)
4. Atomic or Molecular Species including the degree of ionization of the species. (A negative ion is indicated by a minus sign; neutral unexcited species by a blank; neutral excited species by a star; and a positive ion by a number indicating the degree of positive ionization. All of these symbols follow the atomic species, which are listed in ascending order of nuclear charge, \( Z \). Molecular species are listed in arbitrary order.)
5. The references. These are identified by an arbitrary file number, the first author, and the year of publication (e.g., 63 implies 1963).

The Process categories that we have chosen are based more on experimental techniques than the, perhaps, more logical theoretical categories. Thus, for example, the category "Absorption" has no theoretical subsection, as the theoretical papers will deal specifically with ionization or dissociation. However, in the laboratory, the quantities measured are usually the total absorption cross section and the photoionization or photodissociation yield. In these cases the cross section is listed under "Absorption" while the yields are listed under "Ionization" and "Dissociation." This listing procedure has been followed even for papers which claim to measure "Ionization" cross sections for atoms using absorption techniques. Those papers listed under the category "Ionization, Experimental," have all measured the cross section by detecting the number of positive ions created.

A large amount of data is now becoming available using mass spectrometry and photoelectron techniques. These techniques measure a quantity which should yield the relative partial photoionization cross section...
for the production of ion fragments, or of the parent ion in a particular energy state. We have listed the papers using these techniques under "Ionization, Relative."

The second section lists the title, authors and complete reference for the papers cited. These are ordered by their "file" number. The abbreviations for journal titles are taken from Chemical Abstracts.

The third section consists of an alphabetical author index. After each name is a list of the "file" numbers of articles, authored or co-authored, which can be found in the bibliographic section.

Acknowledgments

We would like to gratefully acknowledge the assistance of the staff of the JILA Information Center in the preparation of this bibliography. The computer programs used were written by Patricia Ruttenberg, while the editorial and associated technical library work were performed by Elizabeth Reynolds and Victoria Tempey.

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1 The JILA Information Center is supported in part by the National Bureau of Standards through the National Standard Reference Data Program.

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