
INTRODUCTION

This volume presents cumulative indexes and cumulative editorial apparatus for the first ten volumes of the *Collected Papers of Albert Einstein (CPAE)*.

After the publication in 1987 of Volume 1, *The Early Years*, which contained various documents, writings, and correspondence covering the first twenty-three years of Einstein's life, the *CPAE* volumes chart three main chronological periods: the Swiss years; the Berlin years; and the Princeton years.

Albert Einstein (1879–1955) spent his childhood and adolescence in southern Germany. In 1896 he moved to Switzerland, where he attended the Swiss Polytechnic Institute (ETH), completed his doctorate, and worked, with a brief interlude in 1911–1912 as professor at the German University in Prague, until 1914, when he moved to Berlin as a permanent member of the Prussian Academy of Sciences and professor at the University of Berlin. In 1933, Einstein emigrated to the United States, where he spent the last twenty-two years of his life as a faculty member at the Institute for Advanced Study in Princeton, New Jersey.

To date, an additional nine volumes covering the years 1903–1921 have been published, both in the original language “documentary edition,” and in the English-language “translation edition.”

These subsequent volumes are divided into separate *Writings* and *Correspondence* volumes. Thus, Volumes 2, 3, 4, 6, and 7 contain Einstein's *Writings* until and including the year 1921, while Volumes 5, 8, 9, and 10 contain his *Correspondence* until and including the year 1920. In a total of more than 7500 printed pages, the first ten volumes of the series present 256 items of *Writings* as full text, and 2837 items of *Correspondence*, either as full text or in abstract.

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With these ten volumes, the *CPAE* series now covers the first half of Einstein's life and thus more than two decades of extraordinary scientific achievements. The series, which begins with Einstein's birth certificate, contains all his scientific and nonscientific published writings. These include not only his first essay of 1895, his first research paper in 1901, the singular publication record of his *annus mirabilis*, 1905, and the papers leading to his breakthrough to general relativity in late 1915

and early 1916, but also his 1917 popular book on the theory of relativity and the Princeton lectures that were delivered in April 1921. In addition to his publications, the series presents a number of unpublished manuscripts, lecture notes, and calculations that document Einstein's work and thinking.

World War I marks the beginning of Einstein's public interventions in political, social, and humanitarian matters, pacifism, and Zionist causes, documented in an increasing number of nonscientific writings after 1918, as well as in his correspondence. Einstein's correspondence also documents his intellectual biography. Starting with early family correspondence and letters to his fellow student and future wife, Mileva Marić, the topics contained in the letters progress to the more intense professional and scientific exchanges with physicists, mathematicians, astronomers, engineers, and science administrators that illuminate his career path from a position at the Swiss Patent Office, his doctorate in 1905 and his habilitation in 1908, to his faculty appointments in Zurich, Prague, Berlin and Leyden, as well as his many publications, lectures, honors, and prizes. The observational confirmation of the predicted gravitational light bending during the solar eclipse of May 1919 initiates Einstein's rise to international fame.

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Throughout the first ten volumes, the original editorial method established for the series was largely adhered to, modified or supplemented in light of new material and information, unforeseen or unavailable more than twenty years ago. Items discovered after the publication of a given *CPAE* volume to which they would properly belong in chronological order were published as soon as they came to the editors' attention at the beginning of a subsequent volume. Volume 10, in particular, presents 211 supplementary letters to the correspondence already published in Volumes 5, 8, and 9. Most of these items came from the estate of Margot Einstein (1899–1986), who stipulated that the material remain closed until twenty years after her death.

All of Einstein's published and unpublished writings, to the extent that they can be dated, are included in the series. However, in view of the large amount of extant correspondence from Einstein's later years containing an increasing number of routine financial and administrative correspondence, the editors of Volume 8 introduced a "policy of prudent selectivity." The editors of Volumes 9 and 10 have imposed increasing selectivity criteria, such that these volumes only present those letters to and from Einstein that were deemed significant to a proper understanding of his life and work.

Letters not presented as full texts were abstracted in the “Calendars” of these volumes. Of the total of 2837 items of correspondence written by and to Einstein in this period, 695 were abstracted and calendared. Volume 1 includes a “Chronology” of Einstein’s life, covering the period from March 1879 to June 1902, and Volume 5 includes a “Chronology/Calendar” covering the period from June 1902 to April 1914. The subsequent correspondence Volumes 8, 9, and 10 contain “Calendars” that include references to and abstracts of known items of correspondence that were not included as texts.

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In order to facilitate comprehensive and swift access to the material published during the past two decades, we decided to compile a volume that presents cumulative indexes and the editorial apparatus of the ten volumes published to date.

The core of the present volume is the “Cumulative Index to Volumes 1–10.” While this index is based on a merged version of the ten individual general indexes to the documentary edition, the final Cumulative Index was prepared by means of a combination of manual work, resolving inconsistencies among the thesauri of the individual indexes, and automated routines that performed tasks such as detecting subentries, sorting, merging, and adding volume numbers to page numbers.

Each of the ten individual general indexes of the documentary edition contained an extensive entry on “Einstein, Albert (1879–1955),” containing numerous subentries that pointed to information, primarily scientific, which was also referenced elsewhere in the index. Therefore, in the course of preparing the present Cumulative Index, we have retained under this particular heading only those references that specifically refer to Einstein’s work, family, travels, opinions, personal life, political views, and so forth.

The Cumulative Index now also includes references to the chronology and calendars of Volumes 1, 5, and 8 that were not previously indexed. To the extent that errors of fact or misprints in the individual indexes have come to our attention, they have been corrected in the Cumulative Index and have not been listed in the “Errata to Volumes 1–10” presented at the end of the current volume.

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The present volume presents three bibliographies. The “List of Writings, 1891–1921” and the “Einstein Bibliography, 1901–1921” provide chronological lists of Einstein’s writings and publications, compiled from the documents included in the first ten volumes of the *CPAE*.

To a large extent, these lists overlap. However, the “List of Writings, 1891–1921” also includes all of Einstein’s manuscripts that remained unpublished by 1921, while the “Einstein Bibliography, 1901–1921” includes documents that were republished during this period.

Since the editorial objective of the *CPAE* is completeness in regard to Einstein’s writings, these two sections constitute the most complete Einstein bibliographies to date for the years under consideration. In addition, the “Einstein Bibliography, 1901–1921” combines the bibliographic information with an index of citations. For each item, it lists the page numbers in the volumes where the item is referenced or discussed.

No effort has been made to extend the bibliographies of Einstein’s publications and writings beyond 1921. Nevertheless, a number of Einstein’s post-1921 publications can be found in the “Cumulative Bibliography and Index of Citations to Volumes 1–10.” This section lists all the literature written by named authors that is cited in at least one of the first ten volumes of the series. It combines the cumulative literature cited with a cumulative index of citations.

We emphasize that the editorial method of the *CPAE* states that the “lists of literature cited do not constitute a bibliography of all significant works on Einstein.” The same holds for the cumulative bibliography and index of citations. Moreover, we have excluded from the cumulative bibliography all references that were not authored or edited by a named person or group of persons, for example, those in *Vorlesungsverzeichnisse*, *Adressverzeichnisse*, *Statuten*, *Verhandlungen*, *Jahresberichte*, newspaper and journal runs, and so on.

We hope that, in combination with its cumulative index of citations, this bibliography will provide another useful entrée to the information of the documentary edition, particularly with respect to the primary literature. To the extent that misprints and typographical errors in the references to literature have come to the attention of the editors, they have implicitly been corrected in the general cumulative bibliography and are not listed in the cumulative errata.

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In order to facilitate access to the correspondence presented in the *Collected Papers*, the present volume contains two complete lists of Einstein’s correspondence until and including the year 1920.

The first list presents the correspondence in chronological order, the second list presents the correspondence in alphabetical order by correspondent.

The primary purpose of these lists is to integrate the correspondence published in one of the *Correspondence* volumes with correspondence published in a later

volume and correspondence abstracted in a calendar. Although the annotation in the documentary edition contains references to later correspondence or to third-party letters, no effort has been made to extend the lists of correspondence beyond 1920 or beyond direct incoming and outgoing Einstein letters.

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We also include a comprehensive chronology of Einstein's life for the years 1879–1921. Since correspondence that was abstracted in the individual calendars can be found in this volume via the lists of correspondence, references to correspondence are not included in the general chronology. Likewise, all original quotations and bibliographic and archival references for information listed in the general chronology can be found in the individual calendars, rather than in the general chronology.

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This volume presents a list of all significant errata that have come to our attention. Inconsistencies across the different volumes (for instance in years of birth or death of individuals) and errors in the indexes and literature cited have been corrected in the Cumulative Index and the Cumulative Bibliography, and are not listed in the errata.

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We emphasize that the information in this volume is intended primarily to direct the reader to the relevant and authoritative information that can be found in the individual volumes of the documentary edition. We hope that readers of the *Collected Papers of Albert Einstein* will find Volume 11 useful in facilitating access to the documents presented in the first ten volumes of the series.