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# Introduction

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This work, *Mineralogy & Crystallography: a Biobibliography*, describes the lives and books of many researchers that are important to the development of these two sciences. It includes information on works published through December, 1919. This terminal date was chosen because of its particular significance in the development of the sciences with regard to the spreading use of X-ray diffraction techniques after World War I and the disinterest of the compiler in nearly all mineralogical books published after this date. The works listed therefore, were first issued between the earliest item described, Pliny's *Historia Naturalis* (1st ed., Venice, 1469), and December 31, 1919—a span of 450 years. Modern reprints of older titles first issued during this period are also listed. In a few instances the compiler has an appreciation for a work first published after the terminal date, and its description has been included for his own amusement.

## Headings of Entries

This is essentially an author catalog with biographical commentary and references heading an annotated bibliography of the authors mineralogic and crystallographic books. The cataloging procedure followed is based on that of the Anglo-American Cataloguing Rules (AACR2)<sup>[1]</sup> with minor modifications referred to below.

**Personal names.** The principle of using for the heading the most widely used form of the name has been followed, but (a) medieval names containing a forename are entered under the forename, e.g. ALBERTUS MAGNUS, not

MAGNUS, ALBERTUS; (b) Latin or Greek forms if commonly used are preferred to the vernacular, e.g. AGRICOLA, GEORGIUS, not BAUER, GEORG; (c) Westernized forms are used for Arabic or other Oriental writers, e.g. AVICENNA not IBN SĪNA, ABŪ 'ALĪ AL-ḤUSAYN IBN 'ABDALLĀH. Noblemen are entered under the title or family name, whichever is the better known. Contrary to Anglo-American Cataloguing Rules practice, names with unlauded vowels (ä, ë, ï, ö, ù and ÿ) are retained with the umlauts and inserted into the sequence as though spelt as 'a', 'e', 'i', 'o', 'u' and 'y'. For further information see ARRANGEMENT OF TITLES within this introduction.

**Anonymous and pseudonymous works.** Where a book was published anonymously, but the authorship is known it is entered under the name of the author. Occasionally, if a pseudonym is better known, it is listed under the pseudonym. All works attributed to a single author, whether acknowledged or not, are entered under the same main heading, i.e. anonymous and pseudonymous works are not separated from those in which the author's true name appears, as they are in the *British Library Catalogue* (BLC in the reference list). Where authorship is indicated only by unidentified initials, the last initial excluding any abbreviated designation such as M.D. is used for the heading. Works for which the author is unknown are listed under the first substantive words of the title.

**Spurious works.** Works falsely attributed to an author are arranged following the author's genuine works but under a separate heading consisting of the author's name preceded by the word 'Pseudo', e.g. PSEUDO ARISTOTLE. This does not apply to writings which are generally included in the corpus of an author's work but are of doubtful authenticity. These works are arranged under the main heading but with a

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<sup>[1]</sup> M. Gorman and P.W. Winkler, *Anglo-American cataloguing rules*. Second edition. London, The Library Association, 1978. [i]-xvii, 1-620 p.

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distinctive subheading, e.g. SUPPOSITIOUS AND DOUBTFUL WORKS.

**Dissertations.** The Anglo-American Code is followed in preference to the standard adopted in the *British Library Catalogue*, i.e. the main entry for a dissertation is entered under the name of the 'Praesidium' rather than that of the 'Respondent.' Cross-references are then provided from the 'Respondent' to the main entry of the Praesidium through the name index.

**Joint authors.** The main entry for a work is entered under the senior author (usually listed first on the title page). Cross-references are then provided from all subsequent authors to this main entry. In a few cases when a work is known to be the result of a junior author's labor, the main entry is placed under the name of the junior author, and cross-references are provided from all other authors. For example, Brooke & Miller's *An Elementary Introduction to Mineralogy* (London, 1852) is listed under Miller's corpus based on information supplied by Brooke in the preface. A cross-reference to Miller is then supplied under Brooke's entry.

**Corporate and group headings.** In addition to the usual corporate headings (e.g. GEORGE ENGLISH & CO.), two special group headings are employed simply to bring together like material which would otherwise be difficult to trace in an author catalog, e.g. (a) CATALOGS OF MINERAL COLLECTIONS, a heading chosen for a class of items that effectively was the creation of the collector, who is usually not the author of the catalog. Cross-references are given to the full entry; (b) JOURNALS AND PERIODICALS, under which heading are listed the titles of all regularly published serials described in the bibliography, with cross-references to their main entry.

**Cross-references.** Reference is made from alternative forms of the name to the one adopted for the main heading. Names with prefixes are normally entered according to the Anglo-American Code, unless an exception is made because some alternative form appears to be more widely accepted. Cross-reference from the part(s) of name not used for entry is omitted, except where it can be used to clarify where in the sequence an author is

entered. References from Arabic forms are kept to a minimum because (a) the Westernized form which was commonly used in Renaissance Europe is familiar to Oriental scholars, and others are more likely to seek the writings of these authors immediately under the Western name; (b) the complexity of Arabic names makes cross-reference of little use unless it is done on a scale which is only practicable in a very large work such as that of the *British Library Catalogue*. Cross-references within the main body of the text have been kept to a minimum. However, the names of editors, translators, and others contributing in any form to a work, including printers and publishers may be found in the comprehensive name index provided at the end of the *Biobibliography*. For further information, see the section labeled INDEXES below.

## Entry Description Biography

The main entry consists of a name, either personal or corporate, or the first words of a work published anonymously.

**Personal Names.** If the main entry consists of a person's name (most common), the full name of the individual is provided, as much as possible in agreement with the standard biographies available to the compiler (see REFERENCES for a complete list). When discrepancies arose, national biographies pertinent to the individual's native-land took precedence for the correct spelling of the name. If the individual in question could not be located in any such biography(s), the spelling of the name as used by *The National Union Catalogue* (NUC in the reference list) took precedence, followed in turn by *The British Library Catalogue* and then the *Catalogue Général des Livres Imprimés de la Bibliothèque Nationale* (BLC and CBN respectively in the reference list). Cross-references from name variants were then established back to the main entry. The personal name is followed by the places and dates of birth and death enclosed in parentheses. The word BORN precedes information indicating birth data, while the term DEATH precedes death data. The nationality and occupation(s)

of the individual is then provided. A condensed biographical portrait of the person is then given, emphasizing various mineralogical aspects of the life. Listed at the end are citations to published obituaries and biographies where further biographical detail may be found. For the more famous of the researchers, these lists are not necessarily exhaustive. For example, there is a tremendous body of secondary literature concerning Linneaus and the citations listed in his biography, although numerous, are by no means complete. Within the references, notice is also given of published portraits and other likenesses of the author and comprehensive bibliographies covering the individual that have come to the compiler's attention.

**Commercial Firms.** If the main entry consists of the name of a commercial firm, the full name of the company is given. This is followed by information giving details, as much as they are known, of the firm's history and proprietors. At the end are listed references where further information may be researched.

**Museums.** If the main entry consists of the name of a museum, the city and country where the museum is located is given, followed by the full name of the museum. This is followed by details, as much as they can be ascertained, of the history of the body, including the date of founding. At the end are listed citations where further information may be researched.

**Societies and Organizations.** If the main entry consists of the name of a society or other organized body, the city and country where the society was organized is given. This is followed by the full name of the society or organization. This is followed by details, as much as they can be ascertained, of the history and membership of the society. At the end are listed citations where further information may be researched.

**Anonymous Titles.** If a work is listed that has an unknown author, the first substantive words of the title will be used to create its heading. No other information will be provided in the heading of the entry.

## Bibliography

A listing of mineralogical and crystallographical books authored by the subject follows the

heading entry. The most important source for this section has of course been the close examination of the books themselves. For this the resources of several private and public libraries have been invaluable (see ACKNOWLEDGEMENTS for a list). The next best source for entries have been photocopies of the title pages of the various works, while the remainder of the entries were gathered from many general and specialized bibliographies as well as the internet and a large selection of bookseller catalogs.

## Description of Bibliographical Entries

The most complete bibliographic entries are those where a copy of the listed title has been carefully examined, while less complete descriptions occur for those works not actually examined. The design of the bibliography was derived after reviewing hundreds of bibliographies on a wide variety of subjects. In addition, a relatively recent book on bibliography design helped avoid several pitfalls.<sup>[2]</sup> The format chosen to describe the individual titles is a combination of the ideas presented in the bibliographic manuals of Bowers,<sup>[3]</sup> Esdaile,<sup>[4]</sup> Gaskell,<sup>[5]</sup> and McKerrow.<sup>[6]</sup> The most complete form of an entry consists of the following features.

**Entry Number.** Each title listed in the bibliography is given a unique number. These start at 1 and increment for each title listed through out the whole bibliography.

**Language(s) and Year(s).** Publication language and year in which the title appeared. Other

[2] S.E. Berger, *The design of bibliographies. Observations, references and examples.* London, Mansell, 1991. [i]-viii, [2], [1]-198 p., index, biblio.

[3] F. Bowers, *Principles of bibliographical description.* Introduction by G.T. Tanselle. Winchester, St Paul's Bibliographies; New Castle, Delaware, Oak Knoll Press, 1994. [i]-xxv, [1]-505 p. [Reprint of the 1949 edition].

[4] *Esdaile's manual of bibliography.* Revised by Roy Stokes. London, George Allen, 1954. [1]-392 p., illus., index.

[5] P. Gaskell, *A new introduction to bibliography.* New York & Oxford, Oxford University Press, 1972. [22], [1]-438 p., illus., index.

[6] R.B. McKerrow, *An introduction to bibliography for literary students.* Oxford, At the Clarendon Press, 1928. [i]-xv, [1], [1]-359, [1] p., index.

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editions and issues are usually listed as separate entries under the same author.

**Edition and Translation Note.** Following the Language(s) and Year(s) and enclosed in square brackets is a short note indicating either edition or translation information about the forthcoming title.

**Title.** The title as it was originally printed is given. If a copy of the title page has been examined it is represented in quasi-facsimile transcription as accurately as possible. Punctuation and accent marks have been reproduced as best as possible, as have special characters such as  $\tau$ ,  $\varphi$ ,  $\mathcal{L}$ ,  $\mathcal{O}$ ,  $\Gamma$ ,  $\Theta$ ,  $\alpha$ ,  $\varepsilon$ ,  $\gamma$ ,  $\lambda$ , and  $\beta$ . Spelling as it appears on the title page has been copied exactly. Vertical bars “|” indicate the end of a line within the title. Printed errors in the title are followed by a comment of the form [!]=mistake or [sic]=as written. Extraneous descriptions or comments relevant to the format of the title are enclosed in square brackets. Common examples include [short rule], [rule], [double rule], and [ornament].

**Format.** The pagination of the book(s) begins with reference to the predominant number of leaves in a single section. For example, 2°=folio, 4°=quarto, 8°=octavo, 12°=duccimo, etc. The format is ended by a colon “:”.

**Collation.** In older books it was common for the printer to add some mark on the various folded section of a book to facilitate the gathering of the signatures in correct order so they could be bound up. These marks were usually a number or a letter or a combination thereof. In this bibliography the gatherings are listed after the format. Following standard bibliographic practice, the Greek character Pi  $\Pi$  is used to indicate a book's preliminary unsigned leaves and the Greek character Chi  $\chi$  indicates unsigned leaves within the body of the book. However, in difference from common practice the collations presented do not attempt to account for all pages of a signature. Rather the collations given account for pages in a book with printing on them.

**Leave Count.** After the collation, the absolute count of leaves is given. This is useful in determining if the collation matches the

pagination. For example, the collation provides a formulae of the leaf count, whose total if multiplied by 2 must equal the page count as given by the pagination. If they don't equate, a discrepancy exists in one or the other or both! For example, the collation  $p^2 a-c^8 d^3$  says there are  $2+8+8+8+3=29$  leaves contained in the book, which means there should be  $29 \times 2=58$  pages.

**Pagination.** A short hand description of the numbering that occurs on the pages is given. Items enclosed in square brackets are assumed and do not actually appear on the page. If appropriate, descriptive material noting the number of plates, maps, tables, etc. will end the pagination of each volume.

**Page Size.** The size of the title page measured in millimeters is provided. Measurement is done first along the length of the page, then across the width. The length of the title is defined to be perpendicular to the reading direction of the text on the title page.

**Contents.** Each book is unique in the method the author and/or publisher has elected to order the information. The contents provides a description of this arrangement. However, it is not meant to be an exhaustive page by page account of the books information. Rather this is an overview of the major sections contained within the volume(s), with the beginning and ending pages indicated or in some cases the beginning and ending leaves. Descriptions enclosed in quotes are derived directly from the first page indicated, while those not in quotes are the compilers interpretation of the intended content. Any comments included by the compiler are enclosed in square brackets.

**Plates, Tables and Maps.** In some books where it is not possible to describe the illustrations depicted on the plates easily, a list of the individual or groups of plates will be provided. Maps and tables when they represent a substantial portion of the volume(s) will also be treated in a similar fashion.

**Rarity.** An attempt is given to provide an idea of the relative rarity of the title listed. This is subjective information based on a wide range of characteristics, such as the book's language, date of publication, frequency of listings in bookseller catalogs, and the collective holding

in public and private United States, British, and European libraries, etc. Several categories are provided to distinguish rarity, i.e. ONLY COPY KNOWN=only one copy traced, EXTREMELY RARE=2-5 copies traced, VERY RARE=6-12 copies traced, RARE=13-22 copies traced, VERY SCARCE=23-32 copies traced and SCARCE=more than 33 copies traced.

**Commentary.** The commentary describes the importance (if any) of the title to the history and development of mineralogy or crystallography. Inclusion may be made of a contents summary, quotations from the work, translation of the title, publishing history, descriptions of notable illustrations, etc.

**Other Editions, Translations & Reprints.** For books that went through many editions or were reprinted after 1919, this section will provide the pertinent information about the title. In addition, titles that have only minor mineralogical information, but had multiple editions or translations, will use this section to list other variations of the book. Usually, this consists of a short title, place of publication, year and pagination. Rarely, a full description with commentary will be provided.

**References.** If a particular title is important to the development of either science, other authors will most likely have written about the book, and its place in history. In addition, various library catalogs or bibliographies may include the title. Citations to these other writings will appear in this position. Reference to book reviews is also given here. If no reference to the described title has been found, REFERENCES will not appear at the end of the commentary.

## Arrangement of Titles

The headings in the *Biobibliography* are in a single alphabetical order and consist primarily of the names of the authors of the various works. Headings such as those used for anonymous works, periodicals, journals, official institutions, museums, mineral collectors, dealers, societies, or other national bodies are included in the same alphabetical sequence. Frequent use is made of cross references when a particular entry could be searched for under different headings.

## Roman Alphabets

Names originally written in a Roman alphabet language retain all diacritical marks and special characters as they would if written in their native language. To simplify the location of a particular name, all accented characters fall into the same alphabetical sequence as if they were not accented. Thus á=a, ç=c, ê=e, í=i, ô=o, ó=o, ū=u, etc. Contrary to Anglo-American Cataloguing Rules practice, there is no exception to this rule for the unlauded vowels, ä, ë, ï, ö, ü and ÿ. When one or more of these characters appears in a name, each occurrence of the vowel is treated in the alphabetical sequence as though it is a normal letter. Thus, ä=a, ë=e, ï=i, ö=o, ü=u and ÿ=y.

The old use of a superscripted “e” above a letter to indicate an unlauded vowel has been retrained in the title transcriptions. Thus for transcription to a modern convention, â=ä, ê=ë, ô=ö, ū=ü and ÿ=ÿ.

CYRILLIC	ENGLISH	CYRILLIC	ENGLISH
А а	a	Р р	r
Б б	b	С с	s
В в	v	Т т	t
Г г	g	У у	u
Д д	d	Ф ф	f
Е е	e	Х х	kh
Ё ё	e	Ц ц	ts
Ж ж	zh	Ч ч	ch
З з	z	Ш ш	sh
И и	i	Щ щ	shch
Й й	ÿ	Ъ ъ	”
К к	k	Ы ы	y
Л л	l	Ь ь	’
М м	m	Э э	è
Н н	n	Ю ю	û
О о	o	Я я	î
П п	p	Ђ ђ	ie

TABLE 1

## Non-Roman Alphabets

Names originally written in the Russian, Belorussian or Bulgarian languages and utilizing the Cyrillic alphabet have been transliterated to the roman alphabet. There are a number of tables available for the purpose of

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transliteration, and the one chosen for the *Biobibliography* is also used by the Library of Congress for transliterating Russian with diacritical marks.<sup>[7]</sup> A representation of the transliteration table used within the *Biobibliography* is presented in Table 1.

In addition, there are certain letter combinations, usually occurring at the end of a Russian word, that convert to specific sequences in English. For this purpose specific conversions were used (see Table 2).

CYRILLIC	ENGLISH
-ый	-yĭ
-ий	-iĭ
-ия	-iĭa
-ье	-'e
-ьи	-'i
-кс	-ks

TABLE 2

### Order under the Main Heading

For individual works and collections (including analytical entries) the order is chronological by date of publication (entries of the same date being arranged alphabetically by title), but all versions of the same work or collection are grouped together. Such groups are arranged by language, the order of languages being chronological by date of publication of the earliest entry in each. Under each language the arrangement is (a) original editions, if more than one, in chronological order; (b) translations, if more than one, in chronological order; (c) editions of the same language in chronological order; (d) specific cross-references in alphabetical order. See Figure 1 for a diagram of the general scheme.

Within entries, general cross-references are arranged in alphabetical order, but multiple references to a single heading main entry are condensed to a single cross-reference. In a few cases where a very substantial number of entries appear under a single heading, such as under PLINY, titles are grouped in a special way, usually according to the order adopted in the standard editions of the complete works of

the author. A summary of the arrangement will be found at the beginning of each of these groups. There are also a few cases where minor variations occur, these are indicated by subheadings within the body of the entry.

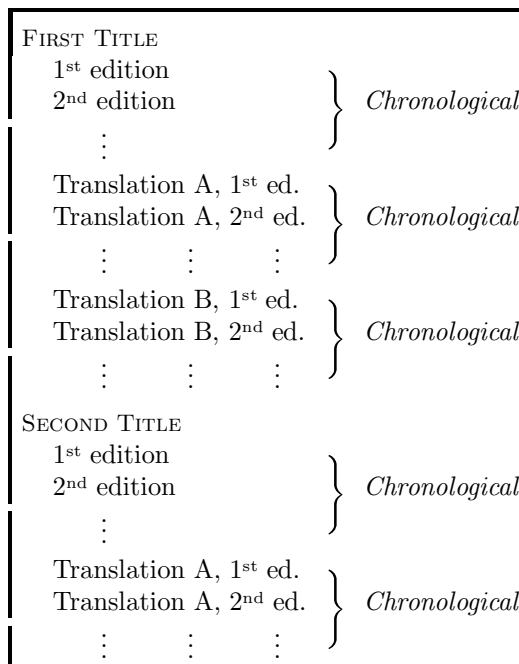


FIGURE 1: General Ordering of Titles

### Indexes (not implemented)

To facilitate the use of this *Biobibliography*, a series of comprehensive indexes has been provided at the end. In order to make maximum use of the index, when a citation refers to a bibliographic title entry, reference is back to the titles entry number in the list. In the case of references back to a main biographical entry, the page number, rather than an item number is used in the index. The page number is distinguished from an item numeral by the application of a bold font. The individual indexes are described below.

**Indexes of Towns and Printers.** These list under each country the various places of publication and the names of the printers and publishers. It is hoped that these very extensive indexes will prove a useful contribution to the study of

<sup>[7]</sup> J.T. Shaw, *The transliteration of modern Russian for English language publications*. Madison, Univ. of Wisconsin Press, 1967.

printing and mineralogical publishing from the fifteenth to the early twentieth century.

**Index to Anonymous Works.** When a work published anonymously can be attributed to a known author, it has been entered in that authors bibliography. However, a collector, bookseller or librarian, actually examining the work may not know the actual author. Therefore this index of short titles with references to the main entry is provided to facilitate their lookup.

**Name Index.** This is a comprehensive index to all names mentioned throughout the body of the *Biobibliography*. The names are listed in a single alphabetical sequence with cross-references from name variants included. Authors, translators, contributors, editors, printers, publishers, artists, engravers and other incidental names are listed in a single sequence, with reference to the page or entry where mention is made.

**Subject Index.** This is an index to subjects mentioned throughout the body of the *Biobibliography*.





# Symbols & Abbreviations

\$	United States dollar, -s	DBF	Dictionnaire Biographique Française
<i>c</i>	unsigned gathering in text	DBI	Dizionario Biografico Degli Italiani
©	copyright	dept.	department
£	English pound, -s	Dfl.	Dutch florin
<i>l.</i>	leaf, leaves	diagr.	diagram, -s
<i>p</i>	unsigned gathering ahead of text	dict.	dictionary
Abhandl.	Abhandlung, -en	dir.	director
abstr.	abstract, -ed	diss.	dissertation
Abt.	Abteilung, -en	DM.	Deutschmark
A.D.	Anno Domini	DNB	Dictionary of National Biography
advert.	advertisement, -s	Dr.	doctor
Akad.	Akademie	DSB	Dictionary of Scientific Biography
allg.	allgemeine	D.Sc.	doctor of science
Amer.	American	dupl.	duplicated
ann.	annum, annual, etc.	edit.	edition, editor
annot.	annotated, annotation	educ.	educated
arch.	archive	e.g.	for example
assoc.	associate, association	engrav.	engraved, -ing
Aufl.	Auflage	enl.	enlarged
B.C.	Before Christ	esp.	especially
Bd.	Band	et al.	and others
b&w.	black & white	f., ff.	folio, -s, or leaf, leaves
biblio.	bibliography	facs.	facsimile
biogr.	biography	fasc.	fascicule
BL	British Library	Festschr.	Festschrift
BMC	British Museum Catalogue	ff.	following
BM(NH)	British Museum (Natural History)	fig.	figure
boll.	boletin, bolletino	fl.	flourished
B.S.	bachelor of science	fold.	folded, folding
bull.	bulletin	Forsch.	Forschung, -en
c[year]	circa[year]	frontis.	frontispiece
ca.	circa	ft.	foot, feet
cat.	catalog	fwd.	foreword
cf.	consult further, compare	geogr.	geography, geographical, etc.
chi <i>c</i>	unsigned gathering in text	geol.	geology, geological, etc.
Cie.	compagnie	Gesell.	Gesellschaft
cI	1,000 years	GIA.	Gemological Institute of America
class.	classic, classification	gloss.	glossary
cm.	centimeter	gm.	gram
Co.	company	govt.	government
col.	column	GPO	Government Printing Office
coll.	collection	grav.	gravure
cols.	columns	H., Hft.	Heft
comm.	communication	hist.	history, historical, etc.
cont.	content, -s	HMSO	Her Majesty's Stationary Office
contrib.	contribution, contributor	hon.	honorable, honorary
corp.	corporation	ibid.	in the same place
cut.	guillotined	i.e.	that is
DAB	Dictionary of American Biography		

## SYMBOLS & ABBREVIATIONS

illus.	illustration	p.	page, citation
in.	inch	pg.	page
inc.	incorporated	pgs.	pages
incl.	included, inclusive	pp.	pages, inclusive
info.	information	paleont.	paleontological, etc.
init.	initial	passim.	here & there
inst.	institute, institution, etc.	Ph.D	doctor of philosophy
int.	international	phil.	philosophic,-al,-y, etc.
intro.	introduction	photo.	photograph,-ic, etc.
ISBN	International Standard Book Number	Phys.	Physik
Jb., Jg.	Jahrbuch, Jahrgang	pi <i>p</i>	unsigned gathering ahead of text
Jr.	junior	post.	after
kaiserl.	kaiserlich, -e, etc.	praes.	praseidium
Kl.	Klasse	Pref.	preface
königl.	königlich, -e, -en, etc.	proc.	proceedings
krist.	kristallographisch	prof.	professor, professional, etc.
kungl.	kunglich, -e, etc.	pseud.	pseudonym
£	English pound	pt., pts.	part, parts
ℓ.	leaf, leaves	publ.	publication, publisher
lab.	laboratory	quart.	quarterly
DLC	Library of Congress	recte	correctly
lect.	lecture	recto	right
lit.	literature, literary	ref.	reference
litho.	lithograph, -ic	reprod.	reproduction
ltd.	limited	rept.	report
mag.	magazine	res.	research
math.	mathematical, mathematisch, etc.	rev.	revised, -ion, review
med.	medical, medicine, etc.	rotograv.	rotogravure
med.	mededelingen	Schr.	Schrift, -en
mfr.	manufacture, -r	sect.	section, -s
mech.	mechanical	sep.	separate
mem.	memoir, -e	ser.	serial
mineral.	mineralogical, mineralogisch, etc.	sig.	signature
misc.	miscellaneous, miscellany	Sitzungsb.	Sitzungsbericht, -e
misnum.	misnumbered	soc.	society
Mme.	madame	spec.	speciality
Mitt.	Mitteilung,-en	Sr.	senior
mm.	millimeter, -s	subj.	subject
mono.	monograph	suppl.	supplement
ms.	manuscript	supt.	superintendent
M.S.	master of science	symp.	symposium
mus.	museé, museum	tab.	table
nac.	nacional	tech.	technical, technology
Nachf.	Nachfolger	temp.	temperature
nat.	national, -e	terr.	territory
naturf.	naturforschende, -n	trans.	transaction
nauk.	science	transl.	translation
n.d.	no date	übers.	übersetzt
NDB	Neue Deutsche Biographie	univ.	university
n.F.	neue Folge	unnumb.	unnumbered
no.	number	USGS	United States Geological Survey
nos.	numbers	USNM	United States National Museum
n.p.	no place	verso	backside
Nr.	Nummer	Verhandl.	Verhandlung, -en
n.s.	new series	vs.	versus
num.	numerous	Wiss.	Wissenschaftlich, -e, -en
obit.	obituary	Zentralbl.	Zentralblatt
orn.	ornament, -al, -s	zool.	zoology, etc.
		Zs.	Zeitschrift

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# Serials & Journals

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- Acta Eruditorium.  
Acta Nova Eruditorium.  
Allgemeine Deutsche Bibliothek.  
Allgemeine Literatur-Zeitung.  
Almanach der Akademie der Wissenschaften in Wien.  
Amateur Geologist.  
Ambix.  
American Geologist.  
American Journal of Science.  
American Mineralogical Journal.  
American Mineralogist.  
Annalen der Physik und Chemie (Poggendorff).  
Annals and Magazine of Natural History.  
Annals des Chimie.  
Annals of Natural History.  
Annals of Science.  
Annals of the National Academy of Science.  
Annual Register.  
Annual Report of the Geological Society of London.  
Beiträge zur Geologie von Thüringen Beiträge zur Mineralogie und Pétrographie.  
Beiträge zur Naturgeschichte sonderlich des Mineralreichs.  
Berlinische Sammlungen.  
Berlinerischer Magazin.  
Biographical Memoirs of the Fellows of the Royal Society, London.  
Biographical Memoirs, National Academy of Sciences.  
Book Review Digest.  
British Journal for the History of Science.  
Bulletin de la Société Française de Minéralogie et de Crystallographie.  
Bulletin de la Société Géologique de France.  
Bulletin of the British Museum (Natural History). Historical Series.  
Bulletin of the Geological Society of America.  
Canadian Mineralogist.  
Casopis pro Mineralogii a Geologii.  
Chemisch Weekblad.  
Commentarii Lipsiæ.  
Earth Science Review.  
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Der Geologie.  
Göttingische Anzeigen.  
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