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INTERNATIONAL CATALOGUE

OF

SCIENTIFIC LITERATURE

FIRST ANNUAL ISSUE

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MINERALOGY

INCLUDING

PETROLOGY AND CRYSTALLOGRAPHY

PUBLISHED FOR THE INTERNATIONAL COUNCIL

BY THE

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PREFACE.

THE INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE, commencing with the literature of the year 1901, is an outgrowth of the *Catalogue of Scientific Papers* relating to the scientific literature of the nineteenth century, published by the Royal Society of London.

The suggestion to catalogue scientific papers may be traced back to Prof. Henry, of Washington, U.S.A., who brought the subject under the notice of the British Association for the Advancement of Science at its meeting in Glasgow, in 1855. The history of the inception of the enterprise is recorded in the first volume of the *Catalogue of Scientific Papers* issued by the Royal Society in 1867. Twelve large quarto volumes have been printed in which the titles of papers published during the period 1800–1883 are arranged under authors' names. A subject index, which will serve as a key to these volumes and also form an independent record, is in an advanced state of preparation. A catalogue of the scientific papers published during the period 1884–1900 is now being prepared by the Royal Society of London.

The possibility of preparing a complete index of current scientific literature by international co-operation was first taken into consideration by the Royal Society about the year 1893. It had long been apparent that the work was beyond the resources of the Society, or indeed of any single body. Moreover, it was felt that an authors' catalogue could not supply the required information, and that it was essential that scientific workers should be kept fully and quickly informed of all new discoveries by means of complete subject indexes. International co-operation appeared to be the only means of carrying out such a work with the necessary completeness and rapidity. The Society therefore sought the opinion of a very large number of representative bodies and individuals abroad; and, as the replies were almost uniformly in favour of the work being undertaken by international co-operation, steps were taken to summon an International Conference of Delegates appointed by various Governments.

The Conference took place in London on July 14–17, 1896, and was attended by delegates from Canada, Cape Colony, Denmark, France, Germany, Greece, Hungary, India, Italy, Japan, Mexico, Natal, the Netherlands, New South Wales, New Zealand, Norway, Queensland, Sweden, Switzerland, the United Kingdom, and the United States.

It was unanimously resolved that it was desirable to compile and publish, by means of an international organisation, a complete Catalogue of Scientific Literature, arranged according both to subject matter and to authors' names, in which regard should be had, in the first instance, to the requirements of scientific investigators, so that these might find out, with a minimum of trouble, what had been published on any particular subject of enquiry.

It was agreed that the material should, as far as possible, be collected in the various countries by local organisations established for the purpose, and that the final editing and publication of the Catalogue should be entrusted to a Central International Bureau, acting under the direction of an International Council. It was agreed to establish the Central Bureau in London.

Although the question of the method to be adopted in classifying the subject matter of the several sciences was discussed at great length, no decision other than one adverse to the Dewey system was arrived at. The Royal Society was requested to appoint a Committee to take this and many other questions of detail left undecided by the Conference, into consideration.

As the result of the arduous labours of this Committee, complete schedules were prepared for each of the sciences to be catalogued, and a financial statement was also prepared showing the estimated cost of the Catalogue.

The report of the Committee was considered at a second Conference, held in London on October 11–13, 1898, which was attended by accredited representatives from Austria, Belgium, Cape Colony, France, Germany, Hungary, India, Japan, Mexico, Natal, the Netherlands, New Zealand, Norway, Queensland, Sweden, Switzerland the United Kingdom, and the United States.

At this meeting the conclusions arrived at by the first Conference were generally confirmed, and much progress was made in deciding the principles to be adopted in preparing the Catalogue.

Full schedules for the several sciences, which had been prepared by the Committee of the Royal Society, were laid before the delegates. Ultimately, after prolonged discussion, it was decided to adopt an arbitrary combined system of letters, numbers, and other symbols, adapted in the case of each branch of science to its particular needs. A Provisional International Committee was appointed to settle authoritatively the details of the schedules.

The financial position was fully discussed, but no definite conclusions could be arrived at. The delegates attending the meeting were requested to obtain further information on the subject in their respective countries, and to report to the Provisional International Committee.

The Provisional International Committee met in London on August 1–5, 1899. The Committee had arranged for the co-option of an Italian and a Russian member, and M. Th. Köppen attended as the representative of Russia.

The reports received from various countries were considered. Schedules for the seventeen branches of science to be included in the Catalogue were approved for adoption. The financial position was again very fully considered, especially in relation to the establishment of the Central Bureau; and it was finally resolved to recommend that

the Royal Society be requested to organise the Central Bureau, and to do all necessary work, so that the preparation of the Catalogue might be commenced in 1901.

Mainly in consequence of representations made by the German Government, in order to reduce the cost of the enterprise the Provisional International Committee agreed to recommend that the Catalogue should at the outset be of a more restricted character than was contemplated by either the first or the second Conference, that is to say, that the issue of a card catalogue should be postponed, and that the number of subject entries should be kept within narrow limits.

A third International Conference was held in London on June 12 and 13, 1900. This was attended by accredited representatives from Austria, Cape Colony, France, Germany, Greece, Hungary, India, Italy, Japan, Mexico, Natal, New Zealand, Norway, Queensland, Switzerland, and the United Kingdom. The report of the Provisional International Committee appointed at the second Conference was considered, and also a detailed scheme for the publication of the Catalogue which had been prepared, at the request of the Committee, by the Royal Society.

The statements made by the delegates of various countries as to the extent to which they were authorised to promise contributions towards the expenses of the Catalogue being satisfactory, it was resolved to take further steps towards the publication of the Catalogue; and for this purpose, pending the appointment of an International Council, the Conference again appointed a Provisional International Committee. This Committee met at the conclusion of the Conference, and afterwards continued its deliberations through the agency of the Royal Society.

All difficulties were finally removed by the Royal Society undertaking to act as the publishers of the Catalogue on behalf of the International Council, thereby giving the necessary legal status to the undertaking, and also to advance the capital required to start the enterprise on the understanding that this should be repaid during the ensuing five years.

The supreme control over the Catalogue is vested in an International Convention. Such a Convention is to be held in London in 1905, in 1910, and every tenth year afterwards, to reconsider, and, if necessary, to revise the regulations for carrying out the work of the Catalogue; but the approved Schedules are not to be altered during the first period of five years. In the interval between two successive meetings of the Convention the administration of the Catalogue is vested in an International Council, the members of which are to be appointed by the Regional Bureaus.

The first meeting of the International Council was held in London on December 12, 1900, when it was decided to commence the preparation of the Catalogue from January 1, 1901. At this meeting an Executive Committee was appointed, consisting of the delegates of the Royal Society and representatives of the four largest subscribers—the United States of America, Germany, France, and Italy.

The materials out of which the Catalogue is formed are to be furnished by Regional Bureaus.

Regional Bureaus have already been established in Belgium, Canada, Cape Colony, Denmark, Egypt, France, Great Britain and Ireland, Germany, Greece, Holland, Hungary, Italy, India and Ceylon, Japan, Mexico, New Zealand, New South Wales, Norway, Portugal, Poland, Queensland, Russia, South Australia, Sweden, Switzerland, the United States of America, Victoria, Western Australia, Finland.

The branches of Science to be included in the Catalogue are the seventeen following:—

A—Mathematics
B—Mechanics
C—Physics
D—Chemistry
E—Astronomy
F—Meteorology (including Terrestrial Magnetism)
G—Mineralogy (including Petrology and Crystallography)
H—Geology
J—Geography (Mathematical and Physical)
K—Palæontology
L—General Biology
M—Botany
N—Zoology
O—Human Anatomy
P—Physical Anthropology
Q—Physiology (including experimental Psychology, Pharmacology and experimental Pathology)
R—Bacteriology

Each complete annual issue of the Catalogue will thus consist of seventeen volumes. The price at which this set will be sold to the public is £18. Individual volumes will be sold at prices varying with their size from about ten to thirty-five shillings.

A Schedule of Classification and an Index thereto will be prefixed to each volume in English, French, German, and Italian. This will not only enable the scientific worker to study the system of classification in the language with which he is most familiar, but also in cases of doubt—*e.g.* as to the meaning of a word—will enable him to refer to the corresponding entry in another language. Should there be a marked discrepancy among the schedules on any point the English schedule is to be taken as guide, the schedules printed in that language being those which were approved by the International Council.

The various headings and sub-headings throughout the Subject Index are given in English. Translations of the main headings can be found on reference to the schedules in the other languages by means of the registration numbers that are attached to them.

The entries in the Subject Indexes are in the language of the original paper when that is one of the following five languages: Latin, English, French, German, and Italian. These are the only languages used in the Subject Index, but in case of translation the name of the language of the original is inserted within round brackets.

In the Authors' Catalogue each title is given in the original language. When, however, that language is not one of the five

above mentioned, a translation into one of these five languages is added. In such cases the actual title is printed first, and is followed by the translation within square brackets.

It was provided by the original scheme that the Catalogue should comprise all original contributions to the branches of science which come within its scope, whether these had been published in periodicals, or in the journals of societies, or as independent pamphlets, memoirs, or books.

In order that a scientific investigator might be in a position to ascertain by means of the Catalogue what has from time to time been published concerning each particular subject of inquiry, it was held to be of great importance that not only the titles of papers but their subject matter also should be indexed. As stated above, however, financial considerations have led to the number of subject-entries being at present limited in number. But the expense of making subject-entries would be very greatly reduced if all periodicals adopted a practice already carried out by some journals, namely, that of indexing each paper at the time of its publication. Indeed, were this carefully done, the Bureaus preparing the Catalogue would no longer have to study the contents of papers in order to prepare the subject-entries, and the saving thereby effected would make it possible to enlarge the scope of the Catalogue, until it include all original scientific communications. Seeing how necessary such a complete subject catalogue is for the progress of science, it is hoped that all editors and authors will co-operate in so preparing subject-indexes for all papers at the time of their publication.

INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE.

CENTRAL BUREAU.

34 and 35, Southampton Street,
Strand,
London, W.C.

Director.—H. Forster Morley, M.A., D.Sc.

REGIONAL BUREAUS.

All communications for the several Regional Bureaus are to be sent to the addresses here given.

Austria.—Herr Dr. J. Karabaček, Direktor, K. K. Hofbibliothek, Vienna.

Belgium.—Monsieur Louis Masure, Secrétaire-Général de l'Office International de Bibliographie, Brussels.

Canada.—Prof. J. G. Adami, McGill College, Montreal.

Cape Colony.—L. Perinquey, Esq., South African Museum, Cape Town, Cape of Good Hope.

Denmark.—Dr. Martin Knudsen, Polyteknisk Læranstalt, Copenhagen. K.

Egypt.—Capt. H. J. Lyons, R.E., Director-General, Survey Department, Cairo.

Finland.—Herr Hjalmar Lenning, Bibliothekar der Societät der Wissenschaften, Helsingfors.

France.—Monsieur le Dr. J. Deniker, 8, Rue de Buffon, Paris.

Germany.—Herr Prof. Dr. O. Uhlworm, Enckeplatz, 3a, Berlin, S.W.

Greece.—Monsieur D. Metaxas, Chargé d'Affaires for Greece, Greek Legation, 31, Marloes Road, Cromwell Road, S.W.

Holland.—Heer Prof. D. J. Korteweg, Universität, Amsterdam.

Hungary.—Herr Gustav Rados, viii, Müzeumkorut, Muegyetem, Buda-Pest.

India and Ceylon.—The Hon. Sec., Asiatic Society of Bengal, 57, Park Street, Calcutta.

Italy.—Cav. E. Mancini. Accademia dei Lincei. Palazzo Corsini. Lungara, Rome.

Japan.—Prof. J. Sakurai, Imperial University. Tokyo.

Mexico.—Señor Don José M. Vigil. Presidente del Instituto Bibliografico Mexicano, Biblioteca Nacional. Mexico City.

New South Wales.—The Hon. Sec., Royal Society of New South Wales, Sydney.

New Zealand.—Sir James Hector, K.C.M.G., Director of the New Zealand Institute, Wellington, N.Z.

Norway.—Dr. J. Brunchorst, Bergenske Museum, Bergen.

Poland (Austrian, Russian and Prussian).—Herr Dr. T. Estreicher, Sekretär, Komisya Bibliograficzna, Akademii Umiejetnosci, Cracow.

Portugal.—Senhor F. Gomez Teixeira, Academia Polytechnica do Porto, Oporto.

Queensland.—John Shirley, Esq., B.Sc., Cordelia Street, South Brisbane.

Russia.—Monsieur E. Heintz, l'Observatoire Physique Central Nicolas. Vass. Ostr. 23-me ligne, 2, St. Petersburg.

South Australia.—The Librarian, Public Library of South Australia, Adelaide.

Sweden.—Dr. E. W. Dahlgren, Royal Academy of Sciences, Stockholm

Switzerland.—Herr Prof. Dr. J. H. Graf, Schweizerische Landesbibliothek, Bern.

The United States of America.—Prof. S. P. Langley, Smithsonian Institution, Washington.

Victoria.—Prof. J. W. Gregory, Royal Society of Victoria, Victoria Street, Melbourne.

Western Australia.—J. S. Battye, Esq., Victoria Public Library, Perth.

INSTRUCTIONS.

The present volume consists of three parts:—

(*a*) Schedules and Indexes in four languages.

(*b*) An Authors' Catalogue.

(*c*) A Subject Catalogue.

The Subject Catalogue is divided into sections, each of which is denoted by a four-figure number between 0000 and 9999. These numbers follow one another in numerical order, but all the 9999 numbers are not used, for it is intended to fill up the gaps by interpolation of such additional sections as may be required for additions to the system of classification in future years.

To enable the reader to find these numbers quickly, the first or last number on the page is repeated at the head of the page. In looking up a subject, these numbers, which are called Registration numbers, should be used instead of the ordinary pagination. These Registration numbers serve to divide up the subject into sections, each of which deals with related matter.

Thus 70 gives a list of papers upon meteorites, while 71 contains papers in which the structure of meteorites is discussed, 72 contains papers relating to minerals in meteorites, and 73 is an alphabetical list of meteorites.

In each section the final arrangement of papers is in the alphabetical order of authors' names.

In order to find the papers dealing with a particular subject the reader may either consult the Schedule or the Index to the Schedule. The numbers given in the index are Registration numbers, and can be

used at once for turning to the proper page of the Subject Index. This is done by looking at the numbers at the top corners of the pages.

If the reader remember the name of the Author of a paper on a given subject, he will probably find it convenient to refer to the Authors' Catalogue rather than to the Subject Catalogue.

In the Authors' Catalogue the numbers placed within square brackets at the end of each entry are Registration numbers, and serve to indicate the scope of each paper indexed. The meaning of these numbers will at once be found by reference to the Schedule.

In case the abbreviated titles of Journals are not understood, a key to these is provided at the end of the volume.

Topographical Symbols.

Many of the sections are sub-divided into a number of sub-sections by means of topographical symbols. These symbols are letters printed in italics, and they are explained by the topographical classification contained in the Schedules. The topographical symbols are not intended to be used instead of registration numbers.

NOTICE.

On account of the difficulties met with in fully organising the work of the Regional Bureaus, the collection of the material for the Catalogue has been somewhat delayed.

Those portions of the Literature of 1901 which are not dealt with in the first annual issue will be included in the corresponding volumes of the second annual issue of the Catalogue.

International Catalogue of Scientific Literature.

(G) MINERALOGY, PETROLOGY, CRYSTALLOGRAPHY.

0000 Philosophy.
0010 History. Biography.
0020 Periodicals. Reports of Institutions, Societies, Congresses, etc.
0030 General Treatises, Text Books, Dictionaries, Bibliographies, Tables.
0040 Addresses, Lectures.
0050 Pedagogy.
0060 Institutions, Museums, Collections, Economics.
0070 Nomenclature.

MINERALOGY.

10 **General Mineralogy.**
11 Physical and Morphological. (*See* also Crystallography, 300–540.)
12 Chemical.
13 Modes of Occurrence, etc.
14 Alteration.

15 Pseudomorphs.
16 Artificial minerals.
17 Minerals in Rocks. (*See* also 13.)
18 Economic Mineralogy and Petrology, Mines, Ores, Building Materials. (*See* also J 27.)
19 Precious Stones.

30 **Determinative Mineralogy.**

31 Physical and Morphological.
32 Chemical. (*See* also D 6000–6500.)

40 **New Mineral Names.** (*See* also 0070.)

50 **Descriptive Mineralogy.** (Alphabetical List of Names.)

60 **Geographical Distribution.**
[Localities to be indicated by topographical symbols, as given in the Geography Schedule.]

70 **Meteorites.**

71 Structure, etc.
72 Minerals of.
73 Alphabetical List of.

PETROLOGY.

80 General.
82 Igneous rocks (alphabetically arranged).
83 Sedimentary rocks (including those of organic or chemical origin). (*See* also H 28.)
84 Crystalline schists and metamorphic rocks.
85 Unclassified rocks.
87 Analysis (chemical) of rocks. (*See* also D 6000–6500.)
[Localities to be indicated by topographical symbols as given in the Geography Schedule.]

CRYSTALLOGRAPHY.

100 General.

Geometrical and Mathematical Crystallography.

105 General.
110 Symmetry, Systems, etc.
120 Methods of Calculation, Formulæ, Notation, etc.
130 Projection, and Drawing of Crystals.
140 Theories of Crystal Structure. (*See also* C 0400.)
150 Miscellaneous.

Crystal Structure and Growth.

200 General.
210 Irregularities in Crystals, Variation in Angles, Vicinal Faces, Character of Faces.
220 Twinning, Gliding Planes, etc. Regular Grouping of Crystals.
230 Pseudosymmetry, including "Optical Anomalies."
240 Growth of Crystals, Crystallites, etc. Artificial production of Crystals.

Physical (excluding Optical) Crystallography.

300 General.
310 Cohesion, Elasticity, Cleavage, Hardness, etc. (*See* also B 3210.)
320 Etching.
330 Thermal Properties.
340 Electric Properties.
350 Magnetic Properties.
360 Other Physical Properties.

Optical Crystallography.

400 General.
410 Absorption.
420 Refraction and Birefringence. (*See* also C 3830.)
430 Circular Polarisation. (*See* also C 4000.)
440 Other Optical Properties.

Chemical Crystallography. (*See* also D 7000.)

500 General.
510 Isomorphism.
520 Polymorphism.
530 Morphotropy.
540 Stereochemistry, Optically Active and Racemic Compounds.

Determinative Crystallography.

600 General.
610 Goniometric Measurements.
620 Optical Measurements.
630 Apparatus.

700 **Descriptive Crystallography.**

Inorganic substances, exclusive of minerals, arranged under formulæ. (*See* also (D) Chemistry.)

750 **Descriptive Crystallography.**

Organic compounds, arranged either under formulæ or grouped, as in Chemistry, under Hydrocarbons, Acids, etc. (*See* also (D) Chemistry.)

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0000 Philosophie.
0010 Histoire. Biographie.
0020 Périodiques. Rapports d'Institutions, de Sociétés, de Congrès.
0030 Traités généraux, Manuels, Dictionnaires. Bibliographies, Tables.
0040 Discours, Cours et Conférences.
0050 Enseignement.
0060 Institutions, Musées, Collections, etc. Applications pratiques.
0070 Nomenclature.

MINÉRALOGIE.

10 **Minéralogie Générale.**
11 Physique et Morphologique. (*Voy. aussi* Cristallographie 300–540.)
12 Chimique.
13 Modes de Gisements.
14 Altérations.

15 Pseudomorphoses.
16 Minéraux artificiels.
17 Minéraux dans les Roches. (*Voy.* 13.)
18 Minéralogie et Pétrographie appliquées, Mines, Minéraux, Matériaux de Construction. (*Voy. aussi* J 27.)
19 Pierres précieuses.

30 **Méthodes de détermination des minéraux.**

31 Physiques et Morphologiques.
32 Chimiques. (*Voy. aussi* D 6000–6500.)

40 **Noms de minéraux nouveaux.** (*Voy. aussi* 0070.)

50 **Minéralogie descriptive.** (Liste alphabétique des noms. *Voy. aussi* 0070.)

60 **Distribution géographique.**
[Localités à indiquer par des symboles topographiques conformes à ceux donnés dans la classification géographique.]

70 **Météorites.**

71 Structure, etc.
72 Minéraux.
73 Liste alphabétique.

PÉTROGRAPHIE.

80 Généralités.
82 Roches éruptives (classées alphabétiquement).
83 Roches sédimentaires (y compris celles d'origine organique ou chimique). (*Voy. aussi* H 28.)
84 Schistes cristallins et roches métamorphiques.
85 Roches non classées.
87 Analyses chimiques des roches. (*Voy. aussi* D 6000–6500.)
[Les localités à indiquer par des symboles topographiques conformes à ceux donnés dans la classification géographique.]

CRISTALLOGRAPHIE.

100 Généralités.

Cristallographie géométrique et mathématique.

105 Généralités.
110 Symétrie, systèmes cristallins, etc.
120 Méthode de calcul, formules, notations, etc.
130 Projection et dessin des cristaux.
140 Théorie de la structure cristalline. (*V. aussi* C 0400.)
150 Sujets divers.

Structure et mode d'accroissement des cristaux.

200 Généralités.
210 Irrégularités des cristaux, variation des angles, faces vicinales, caractères des faces.
220 Macles, Plans de glissement, Groupements réguliers des cristaux.
230 Pseudosymétrie, y compris les "Anomalies optiques."
240 Accroissement des cristaux, cristallites, etc. Production artificielle des cristaux.

Cristallographie physique, à l'exclusion des propriétés optiques.

300 Généralités.
310 Cohésion, élasticité, clivage, dureté, etc. (*Voy. aussi* B 3210.)
320 Corrosion.
330 Propriétés thermiques.
340 Propriétés électriques.
350 Propriétés magnétiques.
360 Autres propriétés physiques.

Cristallographie optique.

400 Généralités.
410 Absorption.
420 Réfringence et biréfringence. (*Voy. aussi* C 3300.)
430 Polarisation circulaire. (*Voy. aussi* C 4000.)
440 Autres propriétés optiques.

Cristallographie chimique. (*Voy. aussi* D 7000.)

500 Généralités.
510 Isomorphisme.
520 Polymorphisme.
530 Morphotrophie.
540 Stéréochimie, composés optiquement actifs et composés racémiques.

Méthodes de détermination des cristaux.

600 Généralités.
610 Mesures goniométriques.
620 Mesures optiques.
630 Appareils.

700 **Cristallographie descriptive.**

Substances inorganiques (à l'exclusion des minéraux) classées par formule. (*Voy. aussi* (D) Chimie.)

750 **Cristallographie descriptive.**

Composés organiques, soit classés par formules, soit groupés comme en chimie par fonctions (hydrocarbures, acides, etc.). (*Voy. aussi* (D) Chimie.)

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Internationaler Katalog der naturwissenschaftlichen Litteratur.

(G.) MINERALOGIE, PETROGRAPHIE, KRYSTALLOGRAPHIE.

0000 Philosophie
0010 Geschichte. Biographien.
0020 Periodica. Berichte von Instituten, Gesellschaften, Congressen etc.
0030 Allgemeine Abhandlungen, Lehrbücher, Wörterbücher, Bibliographien, Tabellen.
0040 Festreden, Vorträge.
0050 Pädagogik.
0060 Institute, Museen, Sammlungen, Wirthschaftliches und Organisatorisches.
0070 Nomenclatur.

MINERALOGIE.

10 Allgemeine Mineralogie.
11 Physikalische und morphologische Mineralogie. (*Siehe auch* Krystallographie 300–540.)
12 Chemische Mineralogie.
13 Arten des Vorkommens etc.
14 Umwandlung.
15 Pseudomorphosen.
16 Künstliche Mineralien.
17 Mineralien in Gesteinen. (*Siehe auch* 13.)
18 Wirthschaftliche Mineralogie und Petrographie, Bergwerke, Erzgänge, Bau-Materialien. (*Siehe auch* J 27.)
19 Edelsteine.

30 **Determinative Mineralogie.**
31 Physikalisch und morphologisch.
32 Chemisch. (*Siehe auch* D 6000–6500.)

40 **Neue Mineral-Namen.** (*Siehe auch* 0070.)

50 **Descriptive Mineralogie.** (Alphabetische Liste der Namen.)

60 **Geographische Verbreitung.**
[Die Oertlichkeiten sind durch die topographischen Symbole anzuzeigen, wie sie im Geographie-Schema gegeben sind.]

70 **Meteoriten.**
71 Structur etc.
72 Mineralien in ihnen.
73 Alphabetische Liste.

PETROGRAPHIE.

80 Allgemeines.
82 Eruptiv-Gesteine (alphabetisch angeordnet).
83 Sedimentär-Gesteine (einschliesslich solcher organischen oder chemischen Ursprungs). (*Siehe auch* H 28.)
84 Krystalline Schiefer und metamorphische Gesteine
85 Unklassifizirte Gesteine.
87 Analyse (chemische) von Gesteinen. (*Siehe auch* D 6000–6500.)
[Die Oertlichkeiten sind durch die topographischen Symbole anzuzeigen, wie sie im Geographie-Schema gegeben sind.]

KRYSTALLOGRAPHIE.

100 Allgemeines.

Geometrische und Mathematische Krystallographie.

105 Allgemeines.
110 Symmetrie, Systeme etc.
120 Methoden der Berechnung, Formeln, Bezeichnung etc.
130 Projection und Zeichnen von Krystallen.
140 Theorien der Krystallstructur. (*Siehe auch* C 0400.)
150 Verschiedenes.

Structur und Wachsthum der Krystalle.

200 Allgemeines.
210 Unregelmässigkeiten der Krystalle, Variation in den Winkeln, Vicinal-Flächen, Charakter von Flächen.
220 Zwillingsbildung, Gleitflächen etc. Regelmässige Gruppirung von Krystallen.
230 Pseudo-Symmetrie, einschliesslich „Optische Anomalien."
240 Wachsen von Krystallen, Krystalliten; künstliche Erzeugung von Krystallen.

Physikalische Krystallographie, mit Ausschluss der Krystalloptik.

300 Allgemeines.
310 Cohäsion, Elasticität Spaltbarkeit, Härte etc. (*Siehe auch* B 3210.)
320 Aetzung.
330 Thermische Eigenschaften.
340 Elektrische Eigenschaften.
350 Magnetische Eigenschaften.
360 Andere physikalische Eigenschaften.

Krystalloptik.

400 Allgemeines.
410 Absorption.
420 Refraction und Doppelbrechung. (*Siehe auch* C 3830.)
430 Circularpolarisation. (*Siehe auch* C 4000.)
440 Andere optische Eigenschaften.

Chemische Krystallographie. (*Siehe auch* D 7000.)

500 Allgemeines.
510 Isomorphismus.
520 Polymorphismus.
530 Morphotropie.
540 Stereochemie, optisch active und racemische Verbindungen.

Determinative Krystallographie.

600 Allgemeines.
610 Goniometrische Messungen.
620 Optische Messungen.
630 Apparate.

700 **Descriptive Krystallographie.**

Anorganische Substanzen mit Ausschluss der Mineralien, nach der Formel geordnet. (*Siehe auch* (D) Chemie.)

750 **Descriptive Krystallographie.**

Organische Substanzen, entweder nach der Formel geordnet, oder, wie in der Chemie, gruppirt unter: Kohlenwasserstoffe, Säuren etc. (*Siehe auch* (D) Chemie.)

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Catalogo Internazionale della Letteratura Scientifica.

(G) MINERALOGIA, PETROGRAFIA, CRISTALLOGRAFIA.

0000 Filosofia.
0010 Storia. Biografie.
0020 Periodici. Resoconti di Istituti, Società, Congressi, ecc.
0030 Trattati generali, Libri di testo, Dizionarî, Bibliografie, Tavole.
0040 Discorsi, Letture.
0050 Pedagogia.
0060 Istituti, Musei, Collezioni, Applicazioni pratiche.
0070 Nomenclature.

MINERALOGIA.

10 **Mineralogia Generale.**
11 Fisica e morfologica. (*Vedi anche* Cristallografia 300–540.)
12 Chimica.
13 Modi di giacimento, ecc.
14 Alterazioni.
15 Pseudomorfosi.
16 Minerali artificiali.
17 Minerali nelle rocce. (*Vedi anche* 13.)
18 Mineralogia e petrografia industriale, miniere, minerali utili, materiali di costruzione. (*Vedi anche* J 27.)
19 Pietre preziose.

30 **Mineralogia determinativa (Pratica).**

31 Fisica e morfologica.
32 Chimica. (*Vedi anche* D 6000–6500.)

40 **Nomi di nuovi minerali.** (*Vedi anche* 0070.)

50 **Mineralogia descrittiva.** (Lista alfabetica dei nomi.)

60 **Distribuzione geografica.**

[Le località devono essere indicate con simboli topografici come quelli dati nella Schedula Geografica.]

70 **Meteoriti.**

71 Struttura, ecc.
72 Minerali (delle).
73 Lista alfabetica (delle).

PETROGRAFIA.

80 Generalità.
82 Rocce ignee (in ordine alfabetico).
83 Rocce sedimentarie (comprese quelle di origine organica o chimica). (*Vedi anche* H 28.)
84 Schisti cristallini e rocce metamorfiche.
85 Rocce non classificate.
87 Analisi (chimica) di rocce. (*Vedi anche* D 6000–6500.)

[Le località devono essere indicate con simboli topografici come quelli dati nella Schedula Geografica.]

CRISTALLOGRAFIA.

100 Generalità.

Cristallografia geometrica e matematica.

105 Generalità.
110 Simmetria, sistemi, ecc.
120 Metodi di calcolo, formole, notazioni, ecc.
130 Proiezione e disegno dei cristalli.
140 Teorie sulla struttura dei cristalli. (*Vedi anche* C 0400.)
150 Miscellanea.

Struttura dei cristalli ed accrescimenti..

210 Generalità.
210 Irregolarità dei cristalli, Variazioni negli angoli, Facce vicinali, Caratteri delle facce.
220 Piani di geminazione. Piani di scorrimento, ecc. Aggruppamenti regolari dei cristalli.
230 Pseudosimmetria, con incluse "Le anomalie ottiche."
240 Accrescimento dei cristalli, cristalliti, ecc. Produzione artificiale dei cristalli.

Cristallografia fisica (esclusa l'ottica).

300 Generalità.
310 Coesione, elasticità, sfaldatura, durezza, ecc. (*Vedi anche* B 3210.)
320 Corrosione.
330 Proprietà termiche.
340 Proprietà elettriche.
350 Proprietà magnetiche.
360 Altre proprietà fisiche.

Cristallografia ottica.

400 Generalità.
410 Assorbimento.
420 Rifrazione e birifrazione. (*Vedi anche* C 3830.)
430 Polarizzazione circolare. (*Vedi anche* C 4000.)
440 Altre proprietà ottiche.

Cristallografia chimica. (*Vedi anche* D 7000.)

500 Generalità.
510 Isomorfismo.
520 Polimorfismo.
530 Morfotropia.
540 Stereochimica, composti otticamente attivi e racemici.

Cristallografia determinativa (**Pratica**).

600 Generalità.
610 Misure goniometriche.
620 Misure ottiche.
630 Apparecchi.

700 **Cristallografia descrittiva.**

Sostanze inorganiche, esclusi i minerali, disposte secondo la loro formola. (*Vedi anche* (D) Chimica.)

750 **Cristallografia descrittiva.**

Composti organici, disposti ciascuno secondo la sua formola, o aggruppati, come nella chimica, sotto le denominazioni di Idrocarburi, Acidi, ecc. (*Vedi anche* (D) Chimica.)

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International Catalogue of Scientific Literature.

I.—TOPOGRAPHICAL CLASSIFICATION.

[To be used in connexion with Geography, Geology, Botany, Zoology, etc.]

1.—MAIN DIVISIONS.

a. The Earth as a whole.
b. Land as a whole.
c. Ocean as a whole.
d. Europe and Mediterranean Islands.
e. Asia and Malay Archipelago, Celebes and Timor inclusive.
f. Africa and Madagascar.
g. North America to boundary between United States and Mexico.
h. Mexico, Central and South America, and West Indian Islands.
i. Australia, Tasmania and New Zealand, with New Guinea, Gilolo, and Moluccas to west, and including the Solomon Islands, New Hebrides, and New Caledonia to east.
k. Arctic: Greenland and the area north of the Arctic Circle, or of the coasts of Continental America, Asia, and Europe, whichever is farther north.
l. Atlantic and Islands from Arctic Circle to Lat. 45° S.—the southern portion bounded on the east by the meridian 20° E. of Greenwich, south of the coast of Africa; and on the west by the coast of South America.
m. Indian Ocean and Islands limited on the south by Lat. 45° S.: on the west by the meridian 20° E. of Greenwich; on the east by the coast of Australia and the meridian 147° E. of Greenwich.
n. Pacific and Islands from the Arctic Circle to Lat. 45° S., and between the meridian 147° E. of Greenwich and the coast of South America.
o. Antarctic: the area south of 45° S. except the Falkland Islands and the southern parts of South America and New Zealand; but including the islands of New Amsterdam and St. Paul.

N.B.—As a general rule, Islands more than 100 miles from the continent to be classed as Oceanic, unless specially excepted.

2. SUB-DIVISIONS.

d. Europe and Mediterranean Islands.

da. Scandinavia: Sweden, Norway, Denmark, Iceland, Faeroes.
db. Russia in Europe.
dc. German Empire.
dd. Holland; Belgium; Luxemburg.
de. British Islands.
df. France and Corsica.
dg. Spain and Portugal.
dh. Italy: Sicily and Sardinia.
di. Switzerland.
dk. Austria-Hungary (Bosnia and Herzegovina included).
dl. Balkan Peninsula (Turkey in Europe, Roumania, Bulgaria, Servia, Montenegro, and Greece).
dm. Mediterranean and Islands (excluding Sicily, Sardinia, and Corsica).
dn. Black Sea.
do. Baltic and Islands.

e. Asia and Malay Archipelago.

ea. Asiatic Russia.
eb. China and Dependencies: Tibet; Corea.
ec. Japanese Islands; Formosa.
ed. Cochin China: Tonquin, Annam.
ee. Siam.
ef. British India: Himalaya; Burmah; Ceylon.
eg. Malay Peninsula from Isthmus of Kra and Archipelago to Wallace's line, including Celebes and Timor, with the Philippines and China Sea.
eh. Persia; Afghanistan; Baluchistan.
ei. Asiatic Turkey; Arabia.
ek. Caspian.
el. Persian Gulf.

f. Africa and Madagascar.

fa. Mediterranean States—Marocco, Algiers, Tunis, Tripoli.
fb. N.E. Africa; Egypt and Nile Valley to Lat. 10° N. Abyssinia; African Coast of Red Sea.
fc. Sahara and the French Sudan; Darfur, etc.
fd. West Africa, from Marocco to the Congo.
fe. Congo State and Angola.
ff. East Africa, from the Southern border of *fb* to the Zambezi; Socotra.
fg. South Africa—South of the Zambezi and of the boundary between Portuguese and German S.W. Africa.
fh. Madagascar and Comoro Group.
fi. Red Sea and Islands.

g. North America.

ga. Alaska.
gb. Canada as a whole.
gc. Canadian Dominion West (Yukon, British Columbia, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia).
gd. Canadian Dominion East; Newfoundland.
ge. The Laurentian Lakes.
gf. United States as a whole.
gg. North Eastern United States, East of Mississippi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
gh. South Eastern United States, East of Mississippi.
gi. Western United States, West of Mississippi.

h. Central and South America and West Indies.

ha. Mexico.
hb. Central America: Guatemala; Honduras; British Honduras; Salvador; Nicaragua; Costa Rica.
hc. West Indian Islands; Caribbean Sea; Gulf of Mexico.
hd Guiana—British, Dutch, and French; Venezuela; Trinidad.
he. Columbia; Ecuador.
hf. Peru.
hg. Bolivia.
hh. Brazil
hi. Argentina; Uruguay and Paraguay.
hk. Chili.
hl. Tierra del Fuego and neighbouring islands; Falkland Islands.
hm. The Andes.

i. Australasia.

ia. New Guinea with Islands from Wallace's line, including Gilolo, Amboina, Ceram.
ib. Bismarck Archipelago (New Britain, etc., to Solomon Islands inclusive).
ic. Australia as a whole.
id. Queensland.
ie. New South Wales.
if. Victoria.
ig. South Australia.
ih. West Australia.
ii. Tasmania.
ik. New Zealand.
il. New Caledonia, New Hebrides, and Loyalty Islands.

k. Arctic.

ka. Arctic Ocean.
kb. Greenland.
kc. Archipelago north of North America.
kd. Islands north of Europe and Asia.

l. Atlantic.

la. North Atlantic Ocean and Islands not otherwise specified.
lb. Azores; Canaries; Madeira; Cape Verde.
lc. South Atlantic and Islands.

m. Indian Ocean.

ma. Ocean and Islands N. of Equator.
mb. Ocean and Islands S. of Equator, including Mascarene Islands, Amsterdam, and St. Paul.

n. Pacific.

na. North Pacific Ocean (North of Equator).
nb. South Pacific Ocean (South of Equator).
nc. Behring Sea and Islands (Aleutian Archipelago, etc.).
nd. Sandwich Islands and scattered groups N. of Equator and E. of 180°.
ne. Ladrone, Pelew, Caroline and Marshall Groups, with other Islands N. of Equator and W. of 180°.
nf. Fiji Islands, Friendly Islands, Samoa, Ellice, Phœnix Islands, etc., west of Meridian 160° W. of Greenwich.
ng. Galapagos Islands.
nh. Society Islands, Low Archipelago, Marquesas, and other Islands of S. Pacific, east of Meridian 160° W. of Greenwich.

o. Antarctic.

oa. Antarctic Continent as a whole.
ob. S. Georgia, Sandwich Groups, and other Islands S. of S. Atlantic.
oc. Prince Edward Island, Crozets, Kerguelen, and other Islands S. of Indian Ocean.
od. Islands to Southward and South-east of New Zealand and Area South of Pacific.

Internationaler Katalog der naturwissenschaftlichen Litteratur.

I.—TOPOGRAPHISCHE CLASSIFICATION.

[In Verbindung mit Geographie, Geologie, Botanik, Zoologie etc. zu benutzen.]

1.—HAUPT-ABSCHNITTE.

a. Die Erde als Ganzes.
b. Das Festland als Ganzes.
c. Der Ocean als Ganzes.
d. Europa und die Inseln im Mittelländischen Meere.
e. Asien und der Malayische Archipel, einschliesslich Celebes und Timor.
f. Africa und Madagaskar.
g. Nord-Amerika bis zur Grenze zwischen den Vereinigten Staaten und Mexiko.
h. Mexiko, Central- und Süd-Amerika, Westindische Inseln.
i. Australien, Tasmanien und Neu-Seeland, mit Neu-Guinea, Gilolo und Molukken nach Westen, und mit Salomo-Inseln, Neuen Hebriden und Neu-Caledonien nach Osten.
k. Arktisches Gebiet: Grönland und der vom Polarkreis umschlossene Raum, insbesondere die jenseits desselben gelegenen Kütenländer von Amerika, Asien und Europa.
l. Atlantisches Gebiet mit seinen Inseln, vom Polarkreis bis 45° S. Br.; der südliche Theil wird südliche von Afrika nach Osten durch den Meridian 20° O. [v. Gr.] begrenzt und reicht im Westen bis zur Küste von Süd-Amerika.
m. Der Indische Ocean mit seinen Inseln reicht im Süden bis 45° S. Br.; im Westen bis 20° O. L., im Osten bis zur Küste von Australien und dem Meridian 140° O. L.
n. Pacifisches Gebiet mit seinen Inseln, vom Nordpolarkreis bis 45° S. Br., im südlichen Theil begrenzt durch den Meridian 147° O. L. nach Westen, und die Küste von Süd-Amerika nach Osten.
o. Antarktisches Gebiet, umfassened das Gebiet südlich von 45° S. Br., mit Ausschluss der Falklands-Inseln, de südlichen Theile von Süd-Amerika und Neu-Seelands, aber einschliesslich der Inseln Neu-Amsterdam und St. Paul.

N.B.—Allgemeine Regel: Inseln, die mehr als 100 englische Meilen (160 Kilometer) vom Festland entfernt sind, sind, falls nicht besonders ausgenommen, als oceanisch zu classifiziren.

2. UNTERABTHEILUNGEN.

d. Europa und die Inseln im Mittelländischen Meere.

da. Skandinavien: Schweden, Norwegen, Dänemark, Island Faröer.
db. Des Europäische Russland.
dc. Das Deutsche Reich.
dd. Holland; Belgien; Luxemburg.
de. Die Britischen Inseln.
df. Frankreich und Corsica.
dg. Spanien und Portugal.
dh. Italien, met Sicilien und Sardinien.
di. Die Schweiz.
dk. Oesterreich-Ungarn (einschliesslich Bosnien und Herzegowina).
dl. Die Balkan-Halbinsel (Europäische Türkei, Rumänien, Bulgarien, Serbien, Montenegro, Griechenland).
dm. Das Mittelländische Meer mit seinen Inseln (mit Ausschluss von Sicilien, Sardinien und Corsica).
dn. Das Schwarze Meer.
do. Die Ostsee mit ihren Inseln.

e. Asien und der Malayische Archipel.

ea. Asiatisches Russland.
eb. China und zugehörige Länder; Tibet; Korea.
ec. Japanische Inseln; Formosa.
ed. Cochinchina; Tonking, Annam.
ee. Siam.
ef. Britisch-Indien, einschliesslich Himalaya, Burma, Ceylon.
eg. Malayische Halbinsel südlich vom Istmus von Kra, und Malayischer Archipel bis zu Wallace's Linie, einschliesslich Celebes und Timor; Philippinen; Chinesisches Südmeer.
eh. Persien; Afghanistan; Belutschistan.
ei. Asiatische Türkei; Arabien.
ek. Das Kaspische Meer.
el. Der Persische Golf.

f. Afrika und Madagaskar.

fa. Die Mittelmeer-Staaten: Marokko, Algier, Tunis, Tripolis.
fb. Nordost-Afrika: Egypten und Nilthal bis 10° N. Br.; Abessynien; afrikanische Küste des Rothen Meeres.
fc. Die Sahara und der französische Sudan; Darfur etc.
fd. West-Afrika, von Marokko bis zum Kongo.
fe. Kongo-Staat und Angola.
ff. Ostafrika, von der südlichen Grenze von *fb.* bis zum Sambesi; Sokotra.
fg. Süd-Afrika, südlich des Sambesi und der Grenze zwischen
fh. Madagaskar und Komoren.
fi. Das Rothe Meer mit seinen Inseln.

g. Nord-Amerika.

ga. Alaska.
gb. Canada als Ganzes.
gc. West-Canadisches Gebiet: Yukon, Britisch-Columbia, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia.
gd. Ost-Canadisches Gebiet; Neufundland.
ge. Gebiet der Laurentischen Seen.
gf. Vereinigte Staaten als Ganzes.
gg. Nordosten der Vereinigten Staaten, östlich vom Mississippi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
gh. Südosten der Vereinigten Staaten, östlich vom Mississippi.
gi. Westen der Vereinigten Staaten, westlich vom Mississippi.

h. Central-Amerika, Süd-Amerika, West-Indien.

ha. Mexiko.
hb. Central-Amerika: Guatemala, Honduras; Britisch-Honduras; Salvador; Nicaragua; Costa Rica.
hc. Westindische Inseln; Caraibisches Meer; Golf von Mexiko.
hd. Guyana: Britisch, Niederländisch und Französisch: Venezuela; Trinidad.
he. Columbia; Ecuador.
hf. Peru.
hg. Bolivia.
hh. Brasilien.
hi. Argentinien; Uruguay und Paraguay.
hk. Chile.
hl. Feuerland und benachbarte Inseln; Falkland Inseln.
hm. Die Anden.

i. Australasien.

ia. Neu-Guinea, nebst Inseln im Osten von Wallace's Linie, einschliesslich Gilolo, Amboina, Ceram.
ib. Bismarck-Archipel (Neu-Pommern etc. bis Salomo-Inseln)
ic. Australien als Ganzes.
id. Queensland.
ie. Neu-Süd-Wales.
if. Victoria.
ig. Süd-Australien.
ih. West-Australien.
ii. Tasmanien.
ik. Neu-Seeland.
il. Neu-Caledonien, Neue Hebriden und Loyalty Inseln.

k. Arktisches Gebiet.

ka. Der Arktische Ocean.
kb. Grönland.
kc. Archipel nördlich von Nord-Amerika.
kd. Inseln nördlich von Europa und Asien.

l. Atlantisches Gebiet.

la. Der Nordatlantische Ocean mit seinen Inseln, soweit sie nicht anderweit eingereiht sind.
lb. Azoren; Kanaren; Madeira; Cap Verde.
lc. Der Südatlantische Ocean mit seinen Inseln.

m. Indischer Ocean.

ma. Ocean und Inseln nördlich vom Aequator.
mb. Ocean und Inseln südlich vom Aequator, einschliesslich Maskarenen, Neu-Amsterdam und St. Paul.

n. Pacifisches Gebiet.

na. Nordpacifischer Ocean (nördlich vom Aequator).
nb. Südpacifischer Ocean (südlich vom Aequator).
nc. Berings Meer, nebst Inseln (Aleuten-Archipel etc.).
nd. Sandwich-Inseln und zerstreute Gruppen nördlich von Aequator und östlich vom 180. Grad.
ne. Ladronen-, Palau-, Carolinen- und Marshall-Gruppen, nebst andern Inseln nördlich vom Aequator und Westlich vom 180. Grad.
nf. Fidschi-Inseln, Freundschafts-Inseln, Samoa, Ellice-Inseln, Phönix-Inseln etc., westlich vom Meridian 160° W. L.
ng. Galapagos-Inseln.
nh. Gesellschafts-Inseln, Niedrige Inseln, Marquesas- und andere Inseln des südlichen Pacifischen Oceans, östlich vom Meridian 160° W. L.

o. Antarctisches Gebiet.

oa. Der Antarktische Kontinent als Ganzes.
ob. Süd-Georgien, Sandwich-Gruppen, und andere Inseln südlich vom südatlantischen Gebiet.
oc. Prince Edward-Insel, Crozet-Inseln, Kerguelen- und andere Inseln südlich vom Indischen Ocean.
od. Inseln südlich und südöstlich von Neu-Seeland, und Gebiet südlich des Pacifischen Oceans.

Catalogue International de la Littérature Scientifique.

CLASSIFICATION TOPOGRAPHIQUE.

[Cette classification sera appliquée à la géographie, à la géologie, à la botanique, à la zoologie, etc.]

I.—GRANDES DIVISIONS.

a. Données d'ensemble relatives au globe terrestre.
b. Données d'ensemble relatives aux continents.
c. Données d'ensemble relatives aux océans.
d Europe et îles méditerranéennes.
e. Asie et Archipel Malais, Célèbes et Timor inclus.
f. Afrique et Madagascar.
g. Amérique du Nord [en prenant comme limite celle qui sépare les Etats-Unis du Mexique].
h. Le Mexique, Amérique centrale et méridionale avec les Antilles.
i. Australie, Tasmanie et Nouvelle Zélande avec la Nouvelle Guinée, Gilolo et les Moluques à l'ouest, les îles Salomon, les Nouvelles Hébrides et la Nouvelle Calédonie à l'est.
k. Régions arctiques : Groenland et surface polaire s'étendant des côtes américaines, asiatiques et européennes à l'extrême nord.
l. Atlantique avec les îles comprises entre le cercle polaire arctique et le 45° de lat. S. Partie sud de l'Atlantique limitée à l'est par le méridien 20° E. (Greenwich), au sud de l'Afrique ; et à l'ouest par le côte de l'Amérique du sud.
m. Océan Indien avec les îles situées dans l'espace limité dans le sud par le 45° de lat. S. : à l'ouest par le méridien 20° E. (Greenwich) : dans l'est par la côte australienne et le méridien 147° E. (Greenwich).
n. Le Pacifique avec les îles comprises, en latitude, du cercle polaire arctque au 45° de lat. S. ; en longitude, du méridien 147° E. (Greenwich) à la côte de l'Amérique du sud.
o. Régions antarctiques : depuis le 45° de lat. S., moins les Falkland, la pointe sud de l'Amérique méridionale et la Nouvelle Zélande, mais en y comprenant les îles St. Paul et Nouvelle Amsterdam.

N.B.—En général les îles qui se trouvent à plus de 160 à 185 kilomètres du continent sont classées comme îles océaniques, à moins que le contraire ne soit stipulé spécialement.

II.—SUBDIVISIONS.

d. Europe et îles méditerranéennes.

da. Scandinavie : Suède, Norvège, Danemark, Islande, îles Feroë.
db. Russie d'Europe.
dc. Empire Germanique.
dd. Hollande ; Belgique ; Luxembourg.
de. Iles Britanniques.
df. France et Corse.
dg. Espagne et Portugal.
dh. Italie ; Sicile et Sardaigne.
di. Suisse.
dk. Autriche-Hongrie (Bosnie et Herzégovine inclus).
dl. Pénisule Balkanique (Turquie d'Europe, Roumanie, Bulgarie, Serbie, Monténégro et Grèce).
dm. Méditerranée avec ses îles (moins la Sicile, la Sardaigne, et la Corse).
dn. Mer Noire.
do. La Baltique et ses îles.

e. Asie et Archipel Malais.

ea. Asie russe.
eb. Chine et dépendances ; Thibet ; Corée.
ec. Archipel du Japon ; Formose.
ed. Cochinchine. Tonkin. Annam. Cambodge.
ee. Siam.
ef. Indes Britanniques : Himalaya ; Burma, Ceylan.
eg. La Pénisule Malaise depuis l'isthme de Kra ; et l'Archipel Malais jusqu'à la ligne séparative de Wallace, y compris Célèbes, Timor, les Philippines et la Mer de Chine.
eh. Perse ; Afghanistan ; Bélouchistan.
ei. Turquie d'Asie ; Arabie.
ek. Mer Caspienne.
el. Golfe persique.

f. Afrique et Madagascar.

fa. Pays méditerranéens : Maroc, Algérie, Tunisie, Tripoli.
fb. N.E. Africain : Egypte et la vallée du Nil depuis le 10° de lat. N. ; Abyssinie ; côte africaine de la Mer Rouge
fc. Le Sahara et le Soudan français ; Darfour, etc.
fd. Ouest africain, du Maroc au Congo.
fe. Etat du Congo et Angola.
ff. Est africain, depuis la bordure sud de *fb* au Zambèze, Socotora.

fg. Sud africain—Au sud du Zambèze et de la limite entre les possessions portugaises et allemandes du sud-ouest de l'Afrique.
fh Madagascar et groupe des Comores.
fi. La Mer Rouge et ses îles.

g. Amérique du Nord.

ga. Alaska.
gb. Le Canada dans son entier.
gc. Puissance du Canada de l'ouest (Yukon, Colombie Britannique, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia).
gd Puissance du Canada de l'est; Terre neuve.
ge Région des grands lacs laurentiens.
gf. États-Unis.
gg. États-Unis du Nord-Est, à l'est du Mississipi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvanie, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
gh États-Unis du sud-est, à l'est du Mississipi.
gi. États-Unis de l'ouest, à l'ouest du Mississipi.

h. Amérique centrale et méridionale; Indes occidentales.

ha. Mexique.
hb. Amérique centrale: Guatemala; Honduras; Honduras britannique; Salvador; Nicaragua; Costa Rica.
hc. Antilles; Mer Caraïbe; Golfe du Mexique.
hd. Guyanes britannique, hollandaise, et française; Vénézuéla; île de Trinité.
he. Colombie. Ecuador.
hf. Pérou.
hg. Bolivie.
hh. Brésil.
hi. République Argentine; Uruguay et Paraguay.
hk. Chili.
hl. Terre de feu et îles voisines; les Falkland (Malouines).
hm. Les Andes.

i. Australie.

ia. Nouvelle Guinée avec les îles de la ligne séparative de Wallace, en y comprenant Gilolo, Amboine, Ceram.
ib. Archipel de Bismarck (Nouvelle Bretagne avec les les Salomon).
ic. L'Australie en son entier.
id. Queensland.
ie. Nouvelle Galles du sud.
if. Victoria.
ig. Australie du sud.

ih. Australie occidentale.
ii. Tasmanie.
ik. Nouvelle Zélande.
il. Nouvelle Calédonie, Nouvelles Hébrides et les îles Loyauté.

k. Régions arctiques.

ka. Océan arctique.
kb. Groenland.
kc. Archipel nord de l'Amérique du Nord.
kd. Iles au nord d'Europe et d'Asie (Spitzberg, etc.).

l. Atlantique.

la. Océan Atlantique septentrional, et les îles qui n'ont pas encore été spécifiées.
lb. Açores; Canaries; Madère; Cap Vert.
lc. Atlantique méridional et ses îles.

m. Océan Indien.

ma. Océan et les îles au nord de l'Equateur.
mb. Océan et les îles au sud de l'Equateur, avec les Mascareignes et les îles Amsterdam et St. Paul.

n. Pacifique.

na. Pacifique septentrional (au nord de l'Equateur).
nb. Pacifique méridional (au sud de l'Equateur).
nc. Mer de Behring et ses îles (Aléoutiennes . . . etc.).
nd. Iles Sandwich, avec les groupes situés au nord de l'Equateur et à l'est du 180°.
ne. Mariannes, Pelew, archipel des Carolines et de Marshall, avec les autres îles situées au nord de l'Equateur et à l'ouest du 180°.
nf. Iles Fidji, îles des Amis (Tonga, Samoa, Ellice, Phénix et autres) situées à l'ouest du méridien 160° O. (Greenwich).
ng. Iles Galapagos.
nh. Iles de la Société, Pomoutou, Marquises et autres îles du Pacifique méridional à l'est du méridien 160° O. (Greenwich).

o. Régions antarctiques.

oa. Continent antarctique dans son entier.
ob. Géorgie du Sud, groupe des Sandwichs et autres îles au S. de l'Atlantique méridional.
oc. Iles du Prince Edouard, Crozet, Kerguelen et autres îles au S. de l'Océan Indien.
od. Iles au sud et au sud-est de la Nouvelle Zélande et régions méridionales du Pacifique.

Catalago Internazionale della Letteratura Scientifica.

I.—CLASSIFICAZIONE TOPOGRAFICA.

[Da usarsi in rapporto con la Geografia, Geologia, Botanica, Zoologia, ecc.],

1.—DIVISIONI PRINCIPALI.

a. La Terra nel suo complesso.
b. Le terre emerse.
c. L' oceano nel suo complesso.
d. Europa e Isole del Mediterraneo.
e. Asia e Arcipelago Malese, comprese Celebes e Timor.
f. Africa e Madagascar.
g. America settentrionale fino al limite tra gli Stati Uniti e il Messico.
h. Messico, America Centrale e Meridionale, e Indie Occidentali.
i. Australia. Tasmania e Nuova Zelanda colla Nuova Guinea, Gilolo e Molucche verso Ponente, le Salomone, le Nuove Ebridi e la Nuova Caledonia verso Levante.
k. Regione Artica: Groenlandia e l' area a Nord del Circolo Polare, ovvero a Nord delle coste dell' America continentale, dell' Asia e dell' Europa.
l. L' Atlantico e le sue Isole dal Circolo Polare Artico alla Lat. di 45° S., limitato nella sua parte meridionale oltre la costa Africana dal 20° E. da Greenwich, ad Est; e dalla costa dell' America meridionale ad Ovest.
m. L' Oceano Indiano e le sue Isole, limitato a sud dal 45° di Lat. S., a Ponente del meridiano 20° E. di Greenwich; a Levante dalla costa dell' Australia e dal 147° E. da Greenwich.
n. Il Pacifico e le sue Isole dal Circolo Polare Artico alla Lat. di 45° S., e tra il 147° meridiano E. da Greenwich e le coste dell' America meridionale.
o. Regione Antartica: cioè l'area meridionale limitata dal 45° S., eccetto le Isole Falkland e le parti meridionali dell' America del Sud e della Nuova Zelanda; comprendendovi però le isole di Nuova Amsterdam e S. Paolo.

N.B.—Come regola generale, le isole lontane più di 100 miglia inglesi (160 chilometri) dal continente devono essere classificate come oceaniche, salvo speciali eccezioni.

2.—SUDDIVISIONI.

d. Europa e Isole del Mediterraneo.

da. Scandinavia: Svezia, Norvegia, Danimarca, Islanda, Fär Öer.
db. Russia Europea.
dc. Impero Germanica.
dd. Olanda; Belgio; Lussembergo.
de. Isole Britanniche.
df. Francia e Corsica.
dg. Spagna e Portogallo.
dh. Italia: Sicilia e Sardegna.
di. Svizzera.
dk. Austria-Ungheria (comprese Bosnia ed Erzegovina).
dl. Penisola, Balcanica (Turchia Europea, Rumania, Bulgaria, Servia, Montenegro e Grecia).
dm. Mediterraneo e Isole (salvo la Sicilia, la Sardegna e la Corsica).
dn. Mar Nero.
do. Il Baltico e le sue Isole.

e. Asia e Arcipelago Malese.

ea. Russia Asiatica.
eb. Cina e dipendenze: Tibet; Corea.
ec. Isole del Giappone; Formosa.
ed. Coccincina: Tonchino, Annam.
ee. Siam.
ef. India Britannica: Himalaya; Birmania; Ceylon.
eg. Penisola Malese dall' Istmo di Kra e Arcipelago Malese fino alla linea, di Wallace, comprendendovi Celebes e Timor colle Filippine e il Mar della Cina.
eh. Persia; Afghanistan; Belucistan.
ei. Turchia Asiatica; Arabia.
ek. Il Caspio.
el. Golfo Persica.

f. Africa e Madagascar.

fa. Stati Mediterranei—Marocco. Algeri, Tunisi, Tripoli.
fb. Africa del N.E.; Egitto e Vallatta del Nilo fino al 10° di Lat. N.; Abissinia; Coste dell' Africa sul Mar Rosso.
fc. Sahara e Sudan Francese; Darfur, ecc.
fd. Africa occidentale dal Marocco al Congo.
fe. Stato del Congo e Angola.
ff. Africa orientale dal limite indicato in *fb* al Zambesi; Socotra
fg. Africa australe dal Zambesi e dal confine tra l' Africa Portoghese e l' Africa Germanica del S.W.
fh. Madagascar e Gruppo delle Comoro.
fi. Il Mar Rosso e le sue Isole.

g. America Settentrionale.

ga. Alaska.
gb. Il Canada in generale.
gc. Dominio del Canada occidentale (Yukon, Columbia Britannica, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia).
gd. Dominio del Canada orientale; Terranova.
ge. I Laghi Laurenziana.
gf. Gli Stati Uniti in generale.
gg. Stati Uniti del Nord-Est, ad E. del Mississippi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
gh. Stati Uniti del Sud-Est, ad E. del Mississippi.
gi. Stati Uniti occidentali, ad W. del Mississippi.

h. America Centrale e Meridionale e Indie Occidentali.

ha. Messico.
hb. America Centrale; Guatemala; Honduras; Honduras Britannico; Salvador; Nicaragua; Costa Rica.
hc. Indie occidentali; Mar dei Caribi; Golfo del Messico.
hd. Guaiana—Britannica, Olandese e Francese; Venezuela; Trinidad.
he. Columbia; Ecuador.
hf. Perù.
hg. Bolivia.
hh. Brasile.
hi. Argentina; Uruguay e Paraguay.
hk. Cile.
hl. Terra del Fuoco e Isole vicine; Isole Falkland.
hm. Le Ande.

i. Australia e Oceania.

ia. Nuova Guinea colle Isole dalla linea di Wallace, comprendendovi Gilolo (Halmahera) Amboina, Seram.
ib. Arcipelago di Bismarck (Nuova Britannia, ecc., fino alle Solomone inclusivamente).
ic. Australia in generale.
id. Queensland.
ie. Nuova Galles del Sud.
if. Victoria.
ig. Australia meridionale.
ih. Australia occidentale.
ii. Tasmania.
ik Nuova Zelanda.
il. Nuova Caledonia, Nuove Ebridi, e Isole Loyalty.

k. Regione Artica.

ka. Oceano Artico.
kb. Groenlandia.
kc. Arcipelago Nord Americano.
kd. Isole a N. dell' Europa e dell' Asia.

l. Oceano Atlantico.

la. Oceano Atlantico settentrionale e sue Isole, non indicate altrove.
lb. Azorre; Canarie; Madera; Isole del Capo Verde.
lc. Atlantico meridionale e sue Isole.

m. Oceano Indiano.

ma. Oceano e Isole a Nord dell' Equatore.
mb. Oceano e Isole a Sud dell' Equatore, comprendendovi le Mascarene, Amsterdam e S. Paolo.

n. Oceano Pacifico.

na. Pacifico del Nord (a N. dell' Equatore).
nb. Pacifico del Sud (a S. dell' Equatore).
nc. Mar di Behring e sue Isole (Aleutine, ecc.).
nd. Isole Sandwich e Gruppi sparsi a N. dell' Equatore e ad E. del 180°.
ne. Isole dei Ladroni, Pelew, Caroline e Marshall, con altre Isole a N. dell' Equatore e ad ovest del 180°.
nf. Isole Figi, degli Amici, Samoa, Ellice, Fenice, ecc., ad ovest del 160° W. di Greenwich.
ng. Isole Galapagos.
nh. Isole della Società, Arcipelago di Low, Marchesi e altre Isole del Pacifico meridionale, ad Est del meridiano 160° W. da Greenwich.

o. Regione Antartica.

oa. Regione antartica in generale.
ob. Georgia australe, Gruppo delle Sandwich e altre Isole a Sud dell' Atlantico meridionale.
oc. Isole del Principe Edoardo, Crozets, Kerguelen e altre Isole a Sud dell' Oceano Indiano.
od. Isole a Sud e a Sud-Est della Nuova Zelanda e Regione a Sud del Pacifico.

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[*For topographical arrangement vide* 60].

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50 DESCRIPTIVE MINERALOGY

[Alphabetical list of mineral names. The names here adopted are those of Dana (System of Mineralogy, 6th Edit., 1892); cross-references are given from other names in common use to Dana's names for species. Cross-references are also given from each species to all the varieties of that species which appear in the list].

Actinolite.

Hayden, H[enry] H[ubert]. The goldfields of Wainad; historical, geological and economic aspects. Mem. Geol. Surv. Ind., Calcutta, **33**, 2, 1901, (10). [60 *cf* 82].

Ægirine-augite.

Teall, J. J. H. and Pollard, W. The marbles of Assynt. Summ. Progr. Geol., Surv. U.K., London for **1900**, 1901, (154). [60 *de* 82 84].

Ægirite.

Flink, G. On the minerals from Narsarsuk . . . in Southern Greenland. [Ægirite, (70–77)]. Kjöbenhavn, Medd. Grönl., **24**, 1901, (7–180).

Ænigmatite. *v.* Cossyrite.

Albite.

Popov, Boris Anfirovic. Ueber gesetzmässige Verwachsung von Mikroklin und Albit aus dem Augit-granit vom Berge Tchagwe-uaiw in Lapland. (Russe.) St. Peterburg, Trav. Soc. nat., **32,** 1, 1901, (54–55). [220 82].

Algodonite.

Koenig, G. A. Ueber Mohawkit, Stibiodomeykit, Domeykit, Algodonit und einige künstliche Kupferarsenide. Zs. Krystallogr., Leipzig, **34,** 1901, (67–77), [40].

Altaite.

Eakle, Arthur S. Mineralogical notes: with chemical analyses by W. T. Schaller. Berkeley, Univ. Cal., Bull. Dept. Geol., **2,** 1901, (315–326 with 1 pl.).

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Millosevich, Federico. Di alcuni giacimenti di alunogeno in provincia di Roma. Roma, Boll. Soc. geol. ital., **20,** 1901, (263–270). [60 *dh*].

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Dahms, P. Ueber das Vorkommen und die Verwendung des Bernsteins. Zs. prakt. Geol., Berlin, **9,** 1901, (201–211). [60 *de* H 85 K 85.6500].

Häpke, [L.] Nachtrag zu den Bernsteinfunden. Bremen, Abh. natw. Ver., **15,** 1901, (307–310). [60 *de* K 85. 6500 M 6500†].

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Launay, L. de. Excursion à quelques gites minéraux et métallifères du Plateau central. Congrès géologique international de 1900, Paris, **2,** 1901, (938–970). [13 18 60 *df*].

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Lasne, Henri. Composition de l'amblygonite. Paris, C.-R. Acad. sci., **132,** 1901, (1191–1194). [60 *df*].

Penfield, S[amuel] L[ewis]. On the chemical composition of amblygonite. (From Amer. J. Sci., New Haven, Conn., 1879, **18,** (295–301)). [In contributions to mineralogy and petrography from the . . . Sheffield Scientific School, 1901, Penfield and Pirsson, *eds.*].

Amphibole. *v.* Actinolite. Asbestus, Uralite.

Analcite.

Flink, G. On the minerals from Narsarsuk . . . in Southern Greenland. [Analcime, (106–107)]. Kjöbenhavn, Medd. Grönl., **24,** 1901, (7–180).

Evans, John William. A monchiquite from Mount Girnas, Junagarh (Kathiawar). London, Q. J. Geol. Soc., **57,** 1901, (38–53, with pl.). [82 17 60 *ef*].

Anapaite.

Sachs, A. Ueber Anapait, ein neues Kalkeisenphosphat von Anapa am Schwarzen Meere. Berlin, SitzBer. Ak. Wiss., **1901,** (18–21); Zs. Angew. Chem., Berlin, **15,** 1902, (111–112). [40].

Anatase. *v.* Octahedrite.

Ancylite.

Flink, G. On the minerals from Narsarsuk . . . in Southern Greenland. [Ancylite, (49–56)]. Kjöbenhavn, Medd. Grönl., **24,** 1901, (7–180). [40].

Andalusite.

Arsandaux, H. Sur un gisement de tourmaline ferrifère dans l'Aveyron. Paris, Bul. soc. franç. minér., **24,** 1901, (433–434). [60 *df*].

See also Chiastolite.

Andorite.

Spencer, L. J. . . . from Bolivia . . . Sir Martin Conway. The Bolivian Andes, London and New York, 1901, 355). [60 *hq*].

Anhydrite.

van 't Hoff, J[acob] H[einrich], Hinrichsen, W. und Weigert, F. Untersuchungen über die Bildungsverhältnisse der oceanischen Salzablagerungen, insebesondere des Stassfurter Salzlagers. XXII. Gips und Anhydrit. 2. Der lösliche Anhydrit ($CaSO_4$). Berlin, SitzBer. Ak. Wiss., **1901,** (570–578). [16 D 7150 H 28].

van 't Hoff, J[acob] Heinrich]. Hinrichsen, W. und Weigert, F. Untersuchungen über die Bildungsverhältnisse der oceanischen Salzablagerungen, insbesondere des Stassfurter Salzlagers. XXIV. Gips und Anhydrit. 3. Der natürliche Anhydrit und dessen Auftreten bei 25°. Berlin Sitzber. Ak. Wiss., **1901,** (1140–1148). [16 D 7150 H 28].

Annabergite.

Ducru, O. Recherches sur les arséniates ammoniacaux de cobalt et de nickel. Application au dosage de l'arsenic. Ann. chim. phys., Paris, (sér. 7), **22,** 1901, (160–238). [16].

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Warren, C. H. Mineralogical Notes. [Anorthite crystals from Franklin Furnace, N.J.], Amer. J. Sci., New Haven, Conn., (Ser. 4), **11,** 1901, (369–371). [60 *gg*].

Apatite.

Church, A. H. Apatite from Ceylon. Nature, London, **63** 1901, (464). [60 *ef*].

Flink, G. On the minerals from Narsarsuk . . . in Southern Greenland, [Yttrium-apatite, (173–178)]. Kjöbenhavn, Medd. Grönl., **24,** 1901, (7–180.)

Aphthitalite.

Kubierschky, K. Ueber ein eigenthümliches Salzvorkommen im sogenannten Magdeburg - Halberstädter Becken. Mit. nachtrag von J. H. van't Hoff. Berlin, SitzBer. Ak. Wiss., **1902,** (404–415). [40 18 16 J 27 D 6500].

Aragonite.

Wyrouboff, G. Quelques mots à propos d'une expérience de M. Meigen. Paris, Bul. soc. franç. minér., **24,** 1901, (371–373). [31].

Arfvedsonite.

Flink, G. On the minerals from Narsarsuk . . . in Southern Greenland. [Arfvedsonite, (77–82)]. Kjöbenhavn, Medd. Grönl., **24,** 1901, (7–180).

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Frenzel, [A.] Ueber den Plusinglanz. Jahrb. Bergw., Freiberg, **1900,** [1901]. (61–66, mit Taf.).

Penfield, S[amuel] L[ewis]. On Argyrodite and its occurrence at a new locality in Bolivia. (From Amer. J. Sci., New Haven, Conn., 1893, **47,** (107–113). [In contributions to mineralogy and petrography from the . . . Sheffield Scientific School, 1901, Penfield and Pirsson, *eds.*] [60 *hg*].

Arsenopyrite.

Chester, Albert H[untington]. Mineralogical notes and explorations. New Jersey, Trenton, Rep. Geol. Surv., **1900,** 1901, (173–188). [60 *gg*].

Spencer, L. J. . . . from Bolivia . . . Sir Martin Conway, the Bolivian Andes. London and New York, 1901, (362). [60 *hg*].

Asbestus.

Clayton, E. G. Note on asbestos. London, Proc. Chem. Soc., **17,** 1901, (203).

Asphaltum. *v.* 18.

Atacamite.

Moses, A. J. Mineralogical notes. [New forms of Atacamite crystals from Chili]. Amer. J. Sci., New Haven, Conn., (Ser. 4), **12,** 1901, (100–102). [60 *hk*].

Augelite

Spencer, L. J. . . . from Bolivia . . . Sir Martin Conway, the Bolivian Andes. London and New York, 1901, (p. 345). [60 *hg*].

Augite.

Busz, K[arl]. Mittheilungen über Manganosphärit, Schwefel, Brookit, Augit und Pyrit. N. Jahrb. Min., Stuttgart, **1901, 2,** (129–140).

Autunite.

Arsandaux, H. Sur quelques minéraux des environs de Brassac (Tarn). Paris, Bul. soc franç. minér., **24,** 1901, (428–432). [60 *df*].

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Mackie, W. . . . as cementing substances in the Elgin Trias. London, Rep. Brit. Ass., **1901,** (Glasgow), (649–650). [60 *de* 83].

Moesz, G. Baryt, Antimonit, Pyrogyrit und Pyrit von Körmöczbánya. Földt. Közl., Budapest, **32,** 1902, (39–46, mit 3 Taf.). [60 *dk*].

Rogers, Austin F. Mineralogical notes. [Highly modified barite crystals from Kansas City, Mo.]. Amer. J. Sci., New Haven, Conn., (Ser. 4). **12,** 1901, (47). [60 *gi*].

Smith, John. The barite veins of south-west Scotland. Glasgow, Trans. Geol. Soc., **11,** 1900, [1901], (232–237). [60 *de*].

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Allen, O. D. and Comstock, W. J. Bastnäsite and Tysonite from Colorado. (From Amer. J. Sci., New Haven, Conn., 1880, **19,** (390–391)). In contributions to mineralogy and petrography from the . . . Sheffield Scientific School, 1901, Penfield and Pirsson, *eds.*]. [60 *gi*].

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Aichino, G. La Bauxite. Rass. mineraria, Torino, **15,** 1901, (225–227, 243–244, 259–265, 276–278).

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Mattirolo, E. Bauxiti italiane. Rass. mineraria, Torino, **14,** 1901, (229–230). [60 *dh*].

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Bavenite.

Artini, Ettore. Di una nuova specie minerale [Bavenite] trovata nel granito di Baveno. Roma, Rend. Acc. Lincei, (Ser. 5), **10,** 1901, (139–145). [60 *dh* 40].

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Arsandaux, H. Sur quelques minéraux des environs de Brassac (Tarn). Paris, Bul. soc. franç. minér., **24,** 1901, (428–432). [60 *df*].

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Hartley, E. G. J. Ueber die Zusammensetzung der natürlichen Arseniate und Phosphate. 3. Theil. Plumbogummit und Hitchcockit. Zs. Krystallogr., Leipzig, **34,** 1901, (113–123). 4. Theil. Beudantit. Ebenda, (123–128).

Miers, H. A. Bemerkung über die von Hartley analysirten Mineralien Hitchcockit, Plumbogummit und Beudantit. Zs. Krystallogr., Leipzig, **34,** 1901, (128–132).

Biotite.

Flink, G. On the minerals from Narsarsuk . . . in Southern Greenland. [Biotite, (109)]. Kjöbenhavn, Medd. Grönl., **24,** 1901, (7–180).

Hayden, H[enry] H[ubert]. The goldfields of Wainad; historical, geological and economic aspects. Mem. Geol., Surv. Ind., Calcutta, **33,** 2, 1901, (10–16). 82 60 *ef*].

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Penfield, S[amuel] L[ewis], and Foote, H. W. On Bixbyite, a new mineral. (From Amer. J. Sci., New Haven, Conn., 1897, **4,** (105–107)). [In contributions to mineralogy and petrography from the . . . Sheffield Scientific School, 1901, Penfield and Pirsson, *eds.*]

Blende. *v* Sphalerite.

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Vernadskij, V. I. und Popoff, S. P. Ueber den Boraxgehalt von Eruptionsproducten aus dem Salsengebiet von Kertsch und Taman. Zs. prakt. Geol., Berlin, **10,** 1902, (79–81). [18 H 20 D 0500 J 12].

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Hayden, H[enry] H[ubert]. Some auriferous localities in North Coimbatore. Mem. Geol. Surv. Ind., Calcutta, **33**, 2, 1901, (62). [18 82 84 60 *ef*].

Winchell, A. N. [Chalcopyrite and bornite as furnace products]. Amer. Geol., Minneapolis, Minn., **28**, 1901, (244–246).

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Holland, T[homas] H[enry]. On a peculiar form of altered peridotite in the Mysore State. Mem. Geol. Surv. Ind., Calcutta, **34**, 1, 1901, (1–9). [14 60 *ef*].

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Winther, Chr. [Britholite, a new mineral]. Kjöbenhavn, Medd. Grönl., **24**, 1901, (190–196). [40 60 *kb*].

Bröggerite.

Hofmann, K. A. und Heidepriem, W. Eine Bröggerit-Analyse. Berlin, Ber. D. chem. Ges., **34**, 1901, (914–915). [D 6500].

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Busz, K[arl]. Mittheilungen über Manganosphärit, Schwefel, Brookit, Augit und Pyrit. N. Jahrb. Min., Stuttgart, **1901**, **2**, (129–140).

Robinson, H. H. On octahedrite and brookite from Brïndletown, North Carolina. Amer. J. Sci., New Haven, Conn., (Ser. 4), **12**, 1901, (180–184). [60 *gk*].

Brucite.

Teall, J. J. H. and Pollard, W. The marbles of Assynt. Summ. Progr. Geol. Surv. U.K., London, for **1900**, 1901, (153). [60 *de* 84 82].

(G–10253)

Brushite.

Klein, C[arl]. Ueber den Brushit von der Insel Mona (zwischen Haiti und Portorico). Berlin, SitzBer. Ak. Wiss., **1901**, (720–725). [40 60 *he*].

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Koziorowski, K. Sur la composition des calamines de la Pologne. Remarques sur les minerais qu'elles contiennent. (Polish.) Chem. Pols., Warszawa, **2**, 1902, (217–222). [18 60 *db*].

Calaverite.

Carnot, Ad. Tellurures d'or et d'argent de la région de Kalgoorlie (Australie occidentale). Paris, C.-R. Acad. sci., **132**, 1901, (1298–1302); Paris, Bul. soc. franç., minér., **24**, 1901, (357–367); Ann. mines, Paris, (Sér 9), **19**, 1901, (530–540). [60 *ih*].

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Artini, Ettore. Appunti di Mineralogia italiana. Calcite di Pradalunga (Val Seriana). Milano, Atti. Soc. ital. sc. nat., **40**, 1901, (269–274). [60 *dh*].

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Hayden, H[enry] H[ubert]. Some auriferous localities in North Coimbatore. Mem. Geol. Surv. Ind., Calcutta. **33,** 2, 1901, (55). [18 82 84 60 *ef*].

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Rogers, Austin F. Mineralogical Notes. [Calcite]. Amer. J. Sci., New Haven, Conn., (Ser. 4), **12,** 1901, (42–45). [60 *gg, gi*].

Wyrouboff, G. Quelques mots à propos d'une expérience de M. Meigen. Paris, Bul. soc. franç. minér., **24,** 1901, (371–373). [31].

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Rogers, Austin F. Mineralogical notes. [Caledonite crystals from Montana.] Amer. J. Sci., New Haven, Conn., (Ser. 4), **12,** 1901, (47). [60 *gi*].

Canfieldite.

Penfield, S[amuel] L[ewis]. On canfieldite, a new sulphostannate of silver from Bolivia. (From Amer. J. Sci., New Haven, Conn., 1894, **47,** (451–454)). [In contributions to mineralogy and petrography from the . . . Sheffield Scientific School, 1901, Penfield and Pirsson, *eds.*]. [60 *gg*].

Carnallite.

Bücking, H[ugo]. Grosse Carnallitkrystalle von Beienrode. Berlin, Sitz-Ber. Ak. Wiss., **1901,** (539–542).

Cassiterite.

Brooks, Alfred H. A. A new ocurrence of cassiterite in Alaska. Science, New York, N.Y., (N. Ser.), **13,** 1901, (593). [60 *ga*].

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Spencer, L. J. . . . from Bolivia . . . Sir Martin Conway, The Bolivian Andes. London and New York, 1901, (344, 364). [60 *hg*].

Catapleiite.

Flink, G. On the minerals from Narsarsuk . . . in Southern Greenland. [Catapleiite, (93–103)]. Kjöbenhavn, Medd. Grönl., **24,** 1901, (7–180).

Celestite.

Rogers, Austin F. Mineralogical notes. [Celestite crystals from Salina Co., Kansas.] Amer. J. Sci., New Haven, Conn., (Ser. 4), **12,** 1901, (48). [60 *gi*].

Wickes, W. H. [Barytocelestite in] Rhætic . . . at Redland. Bristol, Proc. Nat. Soc., (N. Ser.), **9,** 1901, (99–103). [60 *de*].

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Muthmann, W[ilhelm]; Hofer, H. und Weiss, L. Ueber die Darstellung der Metalle der Cergruppe durch Schmelzelektrolyse. Liebigs Ann. Chem., Leipzig, **320,** 1902, (231–269, mit 4 Taf.). [D 0930 0240 0910].

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Gaubert, P. Minéraux nouveaux. Naturaliste, Paris, (sér. 2), **23,** 1901, (35).

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Hayden, H[enry] H[ubert]. Some auriferous localities in North Coimbatore. Mem. Geol. Surv. Ind., Calcutta, **33,** 2, 1901, (55). [18 82 84 60 *ef*].

Krause, Ernst. Versteinerte Wälder [in Arizona]. Prometheus, Berlin, **12**, 1901, (262–265). [K 35.6500 M 6500†].

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Chalcolamprite.

Flink, G. On the minerals from Narsarsuk . . . in Southern Greenland. [Chalcolamprite, (160–166)]. Kjöbenhavn, Medd. Grönl., **24**, 1901, (7–180). [40].

Chalcopyrite.

Hayden, H[enry] H[ubert], Some auriferous localities in North Coimbatore. Mem. Geol. Surv. Ind., Calcutta, **33**, 2, 1901, (62). [18 82 84 60 *ef*].

Morgan, Leonard P. and Smith, Edgar F. Experiments on chalcopyrite. J. Amer. Chem. Soc., Easton, Pa., **23**, 1901, (107–109); Chem. News, London, **84**, 1901, (29–30). [12 D 0290 0320].

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Chalcostibite.

Spencer, L. J. . . . from Bolivia . . . Sir Martin Conway, The Bolivian Andes. London and New York, 1901, (358). [60 *hg*].

Chalybite. *v.* Siderite.

Chiastolite.

Brown, A. Selwyn. Chiastolite [from South Australia]. Austral. Min. Stand., Melbourne, **20**, 1901, (44). [60 *ig*].

Childrenite.

Penfield, S[amuel] L[ewis]. On the chemical composition of childrenite. (From Amer. J. Sci., New Haven, Conn., 1880, **19**, (315–316). [In contributions to mineralogy and petrography from the . . . Sheffield Scientific School, 1901, Penfield and Pirsson, *eds.*].

Chlorite.

Hatch, F[rederick] H[enry]. Report on the auriferous quartzites of Parhardiah, Chota Nagpore. Mem. Geol. Surv. Ind., Calcutta, **33**, 2, 1901, (68). [18 82 84 60 *ef*].

Hayden, H[enry] H[ubert]. The goldfields of Wainad; historical, geological and economic aspects. Mem. Geol. Surv., Ind., Calcutta, **33**, 2, 1901, (10). [82 60 *ef*].

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Chaignon, de. Sur la présence de la chlorophyllite dans la pegmatite d'Auzon, près Montmort (Saône et Loire). Autun, Bul. soc. hist. nat., **14**, 1901, (C.-R. 142–145).

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Penfield, S[amuel] L[ewis] and Howe, W. T. H. On the chemical composition of chondrodite, humite, and clinohumite. (From Amer. J. Sci., New Haven, Conn., 1894, **47**, (188–206). In contributions to mineralogy and petrography from the . . . Sheffield Scientific School, 1901, Penfield and Pirsson, *eds.*].

Chromite.

Chaignon, de. Nouveaux gisements d'oxyde de chrome. Sur la phlogopite de Mesvres. Autun, Bul. soc. hist. nat., **14**, 1901, (C.-R. 226–227). [60 *df*].

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Moses, A. J. Mineralogical notes. [Chrysoberyl crystal from New York City]. Amer. J. Sci., New Haven, Conn., (Ser. 4), **12**, 1901, (104–105). [60 *gq*].

Clinochlore.

Klein, C[arl]. Optische Studien. II. . . . 4. Ueber Pennin und Klinochlor. Berlin, SitzBer. Ak. Wiss., **1902**, (104–119). [400 420 C 3090].

Clinohedrite.

Penfield, S[amuel] L[ewis] and Foote, H. W. On clinohedrite, a new mineral from Franklin, N.J. (From Amer. J. Sci., New Haven, Conn., 1898, **5**, (289

293). [In contributions to mineralogy and petrography from the . . . Sheffield Scientific School, 1901, Penfield and Pirsson, *eds.*]. [60 *gj*].

Clinohumite.

Penfield, S[amuel] L[ewis] and Howe, W. T. H. On the chemical composition of chondrodite, humite, and clinohumite. (From Amer. J. Sci., New Haven, Conn., 1894, **47,** (188–206). [In contributions to mineralogy and petrography from the . . . Sheffield Scientific School, 1901, Penfield and Pirsson, *eds.*].

Coal. *v.* 18.

Columbite.

Arsandaux, H. Sur quelques minéraux des environs de Brassac (Tarn). Paris, Bul. soc. franç minér., **24,** 1901, (428–432). [60 *df*].

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Lüdecke, [Otto]. Eine neue Modifikation des kohlensauren Kalkes. Zs. Natw., Stuttgart, **74,** 1901. (125–126). [D 0220].

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Carnot, Ad. Tellurures d'or et d'argent de la région de Kalgoorlie (Australie occidentale). Paris, C. R. Acad. sci., **132,** 1901, (1298–1302); Paris, Bul. soc. franç. minér., **24,** 1901, (357–367); Ann. mines, Paris, (sér. 9), **19,** 1901, (530-540). [40 60 *ih*].

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Baker, W. H. [Copper crystals in] . . . mine timbers, at Kawau, [N. Zealand]. Wellington, Trans. N. Zeal. Inst., **33,** 1901, (336–339).

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Coquimbite.

Eakle, Arthur S. Mineralogical notes : with chemical analyses by W. T. Schaller. Berkeley, Univ. Cal., Bull. Dept. Geol., 2, 1901, (315-326, with 1 pl.).

Cordierite. *v.* Iolite.

Cordylite.

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Amer. Anthrop., New York, N.Y.	American Anthropologist, New York, N.Y.	11 U.S.
Amer. Geol., Minneapolis, Minn.	American Geologist, Minneapolis, Minnesota.	14 U.S.
Amer. J. Sci., New Haven, Conn.	American Journal of Science, New Haven, Conn.	17 U.S.
Amsterdam, Proc. Sci. K. Akad. Wet.	Proceedings of the Sections of Sciences, Koninklijke Akademie van Wetenschappen, Amsterdam, 8vo.	3 Hol.
Amsterdam, Verh. K. Akad. Wet., 2e Sect.	Verhandelingen der Koninklijke Akademie van Wetenschappen, 2e Sectie (Natuurhistorische Geologische en Medische Wetenschappen), Amsterdam, 8o.	6 Hol.
Amsterdam, Versl. Wis. Nat. Aft. K. Akad. Wet.	Verslagen der Vergaderingen van de Wis- en Natuurkundige Afdeeling der Koninklijke Akademie van Wetenschappen, Amsterdam, 8o.	7 Hol.
Ann. chim. phys., Paris ...	Annales de chimie et de physique. Réd. MM. Berthelot, Friedel, Mascart, Moissan. Paris. [mensuel.]	44 Fr.
Ann. mines, Paris	Annales des mines, ou recueil des mémoires sur l'exploitation des mines et sur les sciences et les arts qui s'y rattachent. Paris. [mensuel.]	66 Fr.
Ann. Physik, Leipzig ...	Annalen der Physik, hrsg. v. Drude. Leipzig. [monatl.]	44 Ger.
Arch. Pharm., Berlin ...	Archiv der Pharmacie, hrsg. vom deutschen Apotheker-Verein. Berlin. [monatl.]	81 Ger.
Atti Soc. tosc. sc. nat., Pisa	Atti della Società toscana di scienze naturali, Pisa.	26 It.
Austin, Trans. Texas. Acad. Sci.	Transactions of the Texas Academy of Science, Austin.	28 U.S.
Austral. Min. Stand., Melbourne	The Australian Mining Standard. Melbourne.	3 Vic.
Autun, Bul. soc. hist. nat....	Bulletin de la société d'histoire naturelle. Autun (Saône et Loire).	915 Fr.
Baltimore, Md., Amer. Chem. J.	American Chemical Journal. (Johns Hopkins University), Baltimore, Md.	31 U.S.
Bergen, Naturen	Naturen, Bergen...	6 Nor.
Berkeley, Univ. Cal., Bull. Dept. Geol.	University of California. Bulletin of the Department of Geology, Berkeley.	36 U.S.
Berlin, Ber. D. chem. Ges.	Berichte der deutschen chemischen Gesellschaft, Berlin. [20 H. jährl.]	165 Ger.

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Berlin, SitzBer. Ak. Wiss.	Sitzungsberichte der kgl. preussischen Akademie der Wissenschaften. Berlin. [wöch.]	182 Ger.
Berlin, Verh. D. physik. Ges.	Verhandlungen der deutschen physikalischen Gesellschaft. Leipzig. [½ monatl.]	186 Ger.
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Berlin, Zs. Ver. D. Ing. ...	Zeitschrift des Vereins deutscher Ingenieure. Berlin. [wöch.]	202 Ger.
Ber. Vers. sächs. Forstver., Tharandt	Bericht über die Versammlung des sächsischen Forstvereins. Tharandt. [jährl.]	147 Ger.
Béziers, Bul. soc. étud. sci. nat.	Bulletin de la société d'étude des sciences naturelles de Béziers (Hérault). [irrégul.]	171 Fr.
Biol. Centralbl., Berlin ...	Biologisches Centralblatt, hrsg. v. Rosenthal. Berlin. [½ monatl.]	226 Ger.
Bl. Gymn. Schulw., München	Blätter für Gymnasial-Schulwesen, Munchen.	1282 Ger.
Boll. Assoc. min., Iglesias	Bollettino dell' Associazione mineraria sarda, Iglesias.	29 It.
Boll. Naturalista, Siena ...	Bollettino del Naturalista, Siena ...	33 It.
Bologna, Mem. Acc. sc. ...	Memorie dell' Accademia delle scienze dell' Istituto, Bologna.	42 It.
Boston, Mass., Proc. Amer. Acad. Arts Sci.	Proceedings of the American Academy of Arts and Sciences, Boston, Mass.	48 U.S.
Boston, Mass., Soc. Arts Tech. Q.	Technology Quarterly and Proceedings of the Society of Arts, Boston, Mass.	52 U.S.
Bremen, Abh. naturw. Ver. ...	Abhandlungen, hrsg. v. naturwissenschaftlichen Verein zu Bremen. Bremen. [1–2 H. jährl.]	253 Ger.
Bristol, Proc. Nat. Soc. ...	Proceedings of the Bristol Naturalists' Society, Bristol.	40 U.K.
Bul. carte géol. France, Paris	Bulletin des services de la carte géologique de France et des topographies souterraines. Paris. [irrégul.]	206 Fr.
Bul. du Musée commerc., Bruxelles	Bulletin commercial. Organe hebdomadaire du Musée commercial. Bruxelles.	171 Belg.
Bul. écon. Indo-Chine, Saïgon	Bulletin économique de l'Indo-Chine, Saïgon. (mensuel.)	916 Fr.
Bull. Geol. Soc. Amer., Rochester, N.Y.	Bulletin of the Geological Society of America, Rochester, N.Y.	61 U.S.
Bul. Muséum, Paris ...	Bulletin du Muséum d'Histoire Naturelle. Paris. [8 numéros par an.]	237 Fr.

Cambridge, Proc. Phil. Soc.	Proceedings of the Cambridge Philosophical Society, Cambridge.	48 U.K.
Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Univ.	Bulletin of the Museum of Comparative Zoology at Harvard College, Cambridge, Mass.	69 U.S.
Chalon-sur-Saône, Bul. soc. sci. nat.	Bulletin de la société des sciences naturelles de Saône-et-Loire. Chalon-sur-Saône (Saône-et-Loire). [mensuel.]	260 Fr.
Chem. Ind., Berlin ...	Die chemische Industrie, red. v. Witt. Berlin. [½ monatl.]	297 Ger.
Chem. News, London ...	Chemical News and Journal of Science, London.	58 U.K.
Chem. pols., Warszawa ...	Chemik Polski, czasopismo poświęcone wszystkim gałęziom chemii teoretycznej i stosowanej, red. Br. Znatowicz, Warszawa, 8° [weekly.]	2 Pol.
Chem. Rev. Fettind., Berlin	Chemische Revue über die Fett- und Harzindustrie, hrsg. v. L. Allen. Berlin. [monatl.]	299 Ger.
Chem. Zs., Leipzig... ...	Chemische Zeitschrift, hrsg. von F. B. Ahrens. Leipzig. [½ monatl.]	1263 Ger.
ChemZtg, Cöthen	Chemikerzeitung. Centralorgan für Chemiker, Techniker etc. Cöthen. [½ wöch.] Nebst Supplement: Chemisches Repertorium.	301 Ger.
Chicago, Ill., J. Geol. Univ. Chic.	Journal of Geology. (University of Chicago), Chicago, Ill.	102 U.S.
Cosmos, Paris	Cosmos, revue hebdomadaire des sciences et de leurs applications, fondée par M. l'abbé Moigno. Paris.	300 Fr.
C.-R. cong. soc. sav., Paris	Comptes-rendus du congrès des sociétés savantes de Paris et des départements. Section des Sciences. Paris. [annuel.]	283 Fr.
Denver, Proc. Colo. Sci. Soc.	Proceedings of the Colorado Scientific Society, Denver.	128 U.S.
Dinglers polyt. J., Stuttgart	Dinglers polytechnisches Journal, hrsg. v. Pickersgill. Stuttgart. [wöch.]	403 Ger.
Douglas, J. Isle Man Soc....	Yn Lioar Manninagh, Douglas, 8vo. ...	71 U.K.
Dresden, SitzBer. Isis ...	Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft Isis in Dresden. Dresden. [jährl.]	415 Ger.
Dublin, Sci. Proc. R. Soc....	Scientific Proceedings of the Royal Dublin Society, Dublin.	77 U.K.
D. Zuckerind., Berlin ...	Die deutsche Zuckerindustrie, red. v. Hager. Berlin. [wöch.]	392 Ger.
Edinburgh, Proc. Math. Soc.	Proceedings of the Edinburgh Mathematical Society, Edinburgh.	94 U.K.
Edinburgh, Proc. R. Physic. Soc.	Proceedings of the Royal Physical Society of Edinburgh.	95 U.K.
Edinburgh, Trans. Geol. Soc.	Transactions of the Edinburgh Geological Society, Edinburgh.	103 U.K.

Ekaterinburg, Bull. Soc. Oural. nat.	Записки Уральскаго Общества любителей естествознанія. Екатеринбургъ [Bulletin de la Société Ouralienne des amateurs des sciences naturelles à Catherinebourg].	36 Rus.
Elec. World Engin., New York, N.Y.	Electrical World and Engineer, New York, N.Y.	136 U.S.
Engin. Mag., New York, N.Y.	The Engineering Magazine, New York, N.Y.	138 U.S.
Engin. Min. J., New York, N.Y.	Engineering and Mining Journal, New York, N.Y.	139 U.S.
Explor. géolog. rég. aurif. Sibérie, St. Peterburg	Геологическія изслѣдованія золотоносныхъ областей Сибири. С.-Петербургъ [Explorations géologiques dans les régions aurifères de Sibérie. St. Pétersbourg].	46 Rus.
Ferrara, Atti Acc. med. nat.	Atti dell' Accademia di scienze mediche e naturali, Ferrara.	60 It.
Feuille jeunes natural., Paris	Feuille des jeunes naturalistes. Dir. Dollfus. Paris, [mensuel.]	337 Fr.
F. Forstfören. Medd., Helsingfors	Finska Forstföreningens Meddelanden. Helsingfors. 8 : o.	10 Fin.
Földt. Közl., Budapest ...	Földtani Közlöny, Budapest. [Geologische Mittheilungen, Budapest.]	7 Hun.
Gazz. chim. ital., Palermo	Gazzetta chimica italiana, Palermo ...	68 It.
Geogn. Jahreshefte, München	Geognostische Jahreshefte, hrsg. v. d. geognostischen Abtheilung des kgl. bayerischen Oberbergamts in München. München. [jährl.]	507 Ger.
Geol. Mag., London ...	Geological Magazine, London	134 U.K.
Geol. u. paleont. Abh., Jena	Geologische und palæontologische Abhandlungen, hrsg. v. E. Koken. Jena, G. Fischer. [zwanglos.]	1267 Ger.
Glasgow, Trans. Geol. Soc.	Transactions of the Geological Society of Glasgow.	138 U.K.
Glückauf, Essen	Glückauf. Berg- und hüttenmännische Wochenschrift, red. v. Engel, etc. Essen. [wöch.]	526 Ger.
Göttingen, Nachr. Ges. Wiss.	Nachrichten von der kgl. Gesellschaft der Wissenschaften zu Göttingen. Göttingen. [jährl. in zwangl. H.]	531 Ger.
Gorno-zavodsk. list., Charĭkov	Горно-заводскій листокъ. Харьковъ [Gazette des mines. Kharkov].	53 Rus.
Gorn. žurn., St. Peterburg	Горный журналъ. С.-Петербургъ [Journal des mines. St.-Pétersbourg].	54 Rus.
Greifswald. Mitt. natw. Ver.	Mittheilungen aus dem naturwissenschaftlichen Verein für Neu-Vorpommern und Rügen in Greifswald. Berlin. [jährl.]	535 Ger.
Haarlem, Arch. Néerl. Sci. Soc. Holl.	Archives Néerlandaises des Sciences exactes et naturelles publiées par la Société Hollandaise des Sciences, Haarlem, 8o.	22 Hol.

Handl. Ned. Nat. Geneesk. Congres	Handelingen van het Nederlandsch Natuur- en Geneeskundig Congres, 8o.	26 Hol.
Heimath, Kiel	Die Heimath. Monatsschrift des Vereins zur Pflege der Natur- und Landeskunde in Schleswig-Holstein, red. v. Lund. Kiel. [monatl.]	577 Ger.
Hoppe-Seylers Zs. physiol. Chem., Strassburg	Hoppe-Seylers Zeitschrift für physiologische Chemie, hrsg. v. Kossel. Strassburg. [monatl.]	587 Ger.
Indiana, Indianopolis, Rep. Dept. Geol. Nat. Res.	Report of the Indiana Department of Geology and Natural Resources. Indianopolis.	517 U.S.
Ithaca, N.Y., Cornell Univ., J. Physic. Chem.	Journal of Physical Chemistry. (Cornell University), Ithaca, N.Y.	170 U.S.
Jaarb. Mijnw. Ned. Ind., Batavia	Jaarboek van het Mijnwezen in Nederlandsch-Indië, uitgegeven door het Ministerie van Koloniën, Batavia, 8o.	29 Hol.
Jahrb. Bergw., Freiberg ...	Jahrbuch für das Berg- und Hüttenwesen im Königreich Sachsen, hrsg. v. Menzel. Freiberg. [jährl.]	604 Ger.
J. Amer. Chem. Soc., Easton, Pa.	Journal of the American Chemical Society, Easton, Pa.	174 U.S.
Jenaische Zs. Natw. ...	Jenaische Zeitschrift für Naturwissenschaft, hrsg. v. d. medicinisch-naturwissenschaftlichen Gesellschaft zu Jena. Jena. [4 H. jährl.]	650 Ger.
Ježeg. geol. i miner., Varšava	Ежегодникъ по геологіи и минералогіи Россіи. Варшава [Annuaire de la géologie et de la minéralogie de Russie. Varsovie].	68 Rus.
J. pharm. chim., Paris ...	Journal de pharmacie et de chimie. Réd. Riche. Paris. [bi-mensuel.]	409 Fr.
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Kiev, Zap. Obšč. Jest. ...	Записки Кіевскаго Общества естествоиспытателей. Кіевъ [Mémoires de la Société des Naturalistes de Kiev].	100 Rus.
Kjöbenhavn, Medd. Grönl.	Meddelelser om Grönland, Kjöbenhavn.	16 Den.
Krakow, Bull. Intern. Acad.	Bulletin International de l'Académie des Sciences de Cracovie, classe des Sciences mathématiques et naturelles : red. J. Rostafiński, Cracovie, 8° [monthly.]	11 Pol.

Landw. Versuchstat., Berlin	Die landwirthschaftlichen Versuchs-Stationen. Organ für naturwissenschaftliche Forschungen auf dem Gebiete der Landwirthschaft, hrsg. v. Nobbe. Berlin. [2 monatl.]	725 Ger.
Leicester, Trans. Lit. Phil. Soc.	Transactions of the Leicester Literary and Philosophical Society, Leicester.	198 U.K.
Leiden, Comm. Physic. Lab.	Communications from the Physical Laboratorium at the University of Leiden, by H. Kamerlingh Onnes. Leiden, 8o.	32 Hol.
Leiden, Samml. Geol. Reichsmus.	Sammlungen des Geologischen Reichsmuseums in Leiden, Leiden, 8o.	35 Hol.
Leipzig, Mitt. landw. Inst....	Mittheilungen des landwirthschaftlichen Institutes der Universität Leipzig. Berlin. [zwanglos.]	741 Ger.
Liebigs Ann. Chem., Leipzig	J. v. Liebigs Annalen der Chemie, hrsg. v. Erlenmeyer, etc. Leipzig. [½ monatl.]	757 Ger.
Lille, Ann. soc. géol. ...	Annales de la société géologique du Nord. Lille (Nord). [bimestr.]	420 Fr.
Lincoln, Pub. Nebr. Acad. Sci.	Publications of the Nebraska Academy of Sciences, Lincoln.	193 U.S.
Liverpool, Proc. Geol. Soc.	Proceedings of the Liverpool Geological Society, Liverpool.	204 U.K.
London, Anal.	Analyst (Society of Public Analysts), London.	214 U.K.
London, J. Chem. Soc. ...	Journal of the Chemical Society, London.	225 U.K.
London, J. Iron Steel Inst.	Journal of the Iron and Steel Institute, London.	231 U.K.
London, J. Soc. Arts ...	Journal of the Society of Arts, London.	244 U.K.
London, J. Soc. Chem. Indust.	Journal of the Society of Chemical Industry, London.	245 U.K.
London, Mineral. Mag. ...	The Mineralogical Magazine and Journal of the Mineralogical Society, London.	250 U.K.
London, Phil. Trans. R. Soc.	Philosophical Transactions of the London Royal Society.	254 U.K.
London, Proc. Chem. Soc....	Proceedings of the Chemical Society, London.	256 U.K.
London, Proc. Geol. Ass. ...	Proceedings of the Geologists' Association, London.	257 U.K.
London, Proc. R. Soc. ...	Proceedings of the London Royal Society.	267 U.K.
London, Q. J. Geol. Soc. ...	Quarterly Journal of the Geological Society, London.	272 U.K.
London, Rep. Brit. Ass. ...	Report of the British Association for the Advancement of Science, London.	276 U.K.
Lüneburg, Jahreshefte naturw. Ver.	Jahreshefte des naturwissenschaftlichen Vereins für das Fürstenthum Lüneburg. Lüneburg. [3 jähr.]	763 Ger.
Magy. chem. F., Budapest	Magyar Chemiai Folyoirat, Budapest. [Ungarische chemische Zeitschrift, Budapest.]	9 Hun.

Math.-natw. Mitt., Stuttgart	Mathematisch - naturwissenschaftliche Mittheilungen, im Auftrage des math.-naturwiss. Vereins in Württemberg hrsg. v. Böklen u. Wölffing. Stuttgart. [3 H. jährl.]	777 Ger.
Math. Termt. Ért., Budapest	Mathematikai és Természettudományi Értesito, Budapest. [Mathematischer und naturwissenschaftlicher Anzeiger, Budapest.]	11 Hun.
Mechaniker, Berlin ...	Der Mechaniker. Zeitschrift zur Förderung der Präcisions-Mechanik und Optik, sowie verwandter Gebiete, hrsg. v. Harrwitz. Berlin. [½ monatl.]	778 Ger.
Mem. Geol. Surv. Ind., Calcutta	Memoirs of the Geological Survey of India, Calcutta.	22 Ind.
Mess. Math., Cambridge ...	Messenger of Mathematics, Cambridge.	329 U.K.
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Milano, Rend. Ist. lomb ...	Rendiconti dell' Istituto lombardo di scienze e lettere, Milano.	106 It.
Mines, Minerals, Scranton, Pa.	Mines and Minerals, Scranton, Pa. ...	231 U.S.
Mining J., London... ...	The Mining Journal. Railway and Commercial Gazette, London.	450 U.K.
Min. Sci. Press, San Francisco, Cal.	Mining and Scientific Press, San Francisco, Cal.	521 U.S.
Mon. indust., Bruxelles ...	Moniteur industriel. Revue financière. Bulletin des adjudications. Mouvement industriel (Bruxelles). [Hebdomadaire].	125 Belg.
Moskva, Ann. Inst. agron.	Извѣстія Московскаго сельскохозяйственнаго Института. Москва [Annales de l'Institut agronomique de Moscou].	133 Rus.
Muzeum, Lwów	Muzeum, czasopismo Towarzystwa Nauczycieli Szkół wyższych, red. B. Mańkowski, Lwów, 8° [monthly.]	26 Pol.
Nantes, Bul. soc. sci. nat....	Bulletin de la société des sciences naturelles de l'Ouest. Nantes (Loire-Inférieure). [trimestr.]	537 Fr.
Napoli, Boll. Soc. nat. ...	Bollettino della Società di naturalisti, Napoli.	118 It.
Nation. Geog. Mag., New York, N.Y.	National Geographic Magazine, New York, N.Y.	255 U.S.
Naturaliste, Paris	Naturaliste (le), revue illustrée des sciences naturelles. Dir. Deyrolle. Paris. [bimensuel.]	541 Fr.
Nature, London	Nature, London	337 U.K.
Nature, Paris	Nature (la), revue illustrée des sciences et de leurs applications aux arts et à l'industrie. Réd. H. E. Parville. Paris. [hebdomad.]	542 Fr.

Natur, Halle	Die Natur. Zeitung zur Verbreitung naturwissenschaftlicher Kenntniss, hrsg. v. Ule. Halle. [wöch.]	863 Ger.
Natur u. Offenb., Münster	Natur und Offenbarung. Organ zur Vermittelung zwischen Naturforschung und Glauben für Gebildete aller Stände. Münster. [monatl.]	866 Ger.
Natw.Rdsch.,Braunschweig	Naturwissenschaftliche Rundschau, hrsg. v. Sklarek. Braunschweig. [wöch.]	867 Ger.
Natw. Wochenschr., Berlin	Naturwissenschaftliche Wochenschrift, red. v. Potonié. Berlin, [wöch.]	868 Ger.
Neft. dělo, Baku	Нефтяное дѣло. Баку [L'industrie du naphte. Bakou].	162 Rus.
New Jersey, Trenton, Rep. Geol. Surv.	Annual Report, Geological Survey of New Jersey, Trenton.	272 U.S.
New York, N.Y., Ann. Acad. Sci.	Annals of the New York Academy of Sciences, New York, N.Y.	279 U.S.
New York, N.Y., Trans. Amer. Inst. Min. Engin.	Transactions of the American Institute of Mining Engineers, New York, N.Y.	523 U.S.
N. Jahrb. Min., Stuttgart ...	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, hrsg.v. Bauer. Stuttgart. [2 monatl.] Nebst Beilage-Bänden.	854 Ger.
Norwich, Trans. Nat. Soc.	Transactions of the Norfolk and Norwich Naturalists' Society, Norwich, 8vo.	350 U.K.
Nuovo Cimento, Pisa ...	Il Nuovo Cimento, Pisa	123 It.
Paris, Bul. soc. chim. ...	Bulletin de la société chimique de Paris, comprenant le procès-verbal des séances, les mémoires présentés à la société, l'analyse des travaux de chimie pure et appliquée, publiés en France et à l'étranger. Dir., Masson. Paris. [bi-mensuel.]	588 Fr.
Paris, Bul. soc. franç. minér.	Bulletin de la société française de minéralogie. Paris. [mensuel.]	594 Fr.
Paris, C.-R. Acad. sci. ...	Comptes-rendus hebdomadaires des séances de l'académie des sciences. Paris. [hebdomad.]	612 Fr.
Petermanns geogr. Mitt., Gotha	Petermanns geographische Mittheilungen aus Perthes' geographischer Anstalt. Gotha. [monatl.] Nebst Ergänzungs-Heften.	904 Ger.
Philadelphia, Pa., J. Frank. Inst.	Journal of the Franklin Institute, Philadelphia, Pa.	353 U.S.
Philadelphia, Pa., Proc. Amer. Phil. Soc.	Proceedings of the American Philosophical Society, Philadelphia, Pa.	350 U.S.
Phil. Mag., London ...	London, Edinburgh, and Dublin Philosophical Magazine. and Journal of Science.	372 U.K.
Physik. Zs., Leipzig ...	Physikalische Zeitschrift, hrsg. v. Riecke u. Simon. Leipzig. [½ monatl.]	920 Ger.

Proc. R. Soc. Vict., Melbourne	Proceedings of the Royal Society of Victoria, Melbourne.	9 Vic.
Proc. verb. Soc. tosc. sc. nat., Pisa	Processi verbali della Società toscana di scienze naturali, Pisa.	154 It.
Prometheus, Berlin ...	Prometheus. Illustrirte Wochenschrift über die Fortschritte in Gewerbe, Industrie und Wissenschaft, hrsg. v. Witt. Berlin. [wöch.]	938 Ger.
Rass. mineraria, Torino ...	Rassegna mineraria, Torino	156 It.
Rep. Austral. Assoc. Adv. Sci.	Report of the Australian Association for the Advancement of Science.	10 Vic.
Rev. gén. sci., Paris ...	Revue générale des sciences pures et appliquées. Dir. L. Olivier. Paris. [bi-mensuel.]	693 Fr.
Rev. sci., Paris	Revue scientifique de la France et de l'étranger. Dir. Ch. Richet. Paris. [hebdomad.]	749 Fr.
Rev. univ. mines, Liége ...	Revue universelle des mines, de la métallurgie, des travaux publics, des sciences et des arts appliqués à l'industrie (Liége). Mensuel.	159 Belg.
Riga, Industrie-Zeitung ...	Rigasche Industrie Zeitung. Riga ...	211 Rus.
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Roma, Boll. Comitato geol.	Bollettino del R. Comitato geologico, Roma.	192 It.
Roma, Boll. Soc. geol. ital.	Bollettino della Società geologica italiana, Roma.	197 It.
Roma, Rend. Acc. Lincei ...	Rendiconti della R. Accademia dei Lincei, Roma.	209 It.
Rouen, Bul. soc. géog. ...	Bulletin de la société normande de géographie. Rouen (Seine-Inférieure). [trimestr.]	778 Fr.
St. Etienne, Bul. soc. indust. minér.	Bulletin de la société de l'industrie minérale de St. Etienne. [trimestr.]	791 Fr.
St. Peterburg, Bull. Com. géol.	Извѣстія Геологическаго Комитета. С.-Петербургъ [Bulletin du Comité géologique. St.-Pétersbourg].	252 Rus.
St. Peterburg, Dnevn. XI Sjezda russ. jest. vrač.	Дневникъ XI съѣзда русскихъ естествоиспытателей и врачей. С.-Петербургъ [Journal XI de la conférence des naturalistes et médecins russes. St. Pétersbourg].	
St. Peterburg, Izv. Obšč. gorn. Inžener.	Извѣстія Общества горныхъ Инженеровъ. С.-Петербургъ [Bulletin de la Société des ingénieurs des mines. St.-Pétersbourg].	259 Rus.
St. Peterburg, Mém. Com. géol.	Труды Геологическаго Комитета. С.-Петербургъ [Mémoires du Comité géologique. St.-Pétersbourg].	267 Rus.

St. Peterburg, Trav. Soc. nat.	Труды Императорскаго С.-Петербургскаго Общества естествоиспытателей. С.-Петербургъ [Travaux de la Société Impériale des naturalistes de St.-Pétersbourg].	284 Rus.
St. Peterburg, Verh. Russ. mineral. Ges.	Записки Императорскаго С.-Петербургскаго минералогическаго общества. С.-Петербургъ [Verhandlungen der russischen mineralogischen Gesellschaft. St.-Pétersbourg].	290 Rus.
Samml. chem. Vortr., Stuttgart	Sammlung chemischer und chemisch-technischer Vorträge, hrsg. v. Ahrens. Stuttgart. [monatl.]	970 Ger.
Sci. Amer., Sup., New York, N.Y.	Scientific American Supplement, New York, N.Y.	400 U.S.
Science, New York, N.Y. ...	Science, New York, N.Y....	402 U.S.
Seifenfabr., Berlin ...	Der Seifenfabrikant, hrsg. v. Deite. Berlin. [wöch.]	1000 Ger.
's Gravenhage, Ingenieur Weekbl.	De Ingenieur, Orgaan van het Koninklijke Instituut van Ingenieurs, van de Vereeniging van Delftsche Ingenieurs, 's Gravenhage, 4o.	65 Hol.
Stockholm, Geol. För. Förh.	Geologiska Föreningens i Stockholm förhandlingar. Stockholm. In-8:o.	23 Swe.
Stockholm, Vet.-Ak. Bih. ...	Bihang till Kongl. Svenska Vetenskaps-Akademiens Handlingar. Stockholm. In-8:o. [Published in four separate series, viz.] Afd. I. Matematik, astronomi, mekanik, fysik, meteorologi och beslägtade ämnen. Afd. II. Kemi, mineralogi, geognosi, fysisk geografi och beslägtade ämnen. Afd. III. Botanik, omfattande både lefvande och fossila former. Afd. IV. Zoologi, omfattande både lefvande och fossila former.	39 Swe.
Stuttgart, Jahreshefte Ver. Natk.	Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart. [jährl.]	1021 Ger.
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Summ. Progr. Geol. Surv. U. K., London	Summary of the Progress of the Geological Survey of the United Kingdom, London.	413 U.K.
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Torino, Atti Acc. sc. ...	Atti della R. Accademia delle scienze, Torino.	220 It.
Trans. Austral. Inst. Min. Eng., Melbourne	Transactions of Australasian Institute of Mining Engineers. Melbourne.	14 Vic.
Umschau, Frankfurt a. M.	Die Umschau. Uebersicht über die Fortschritte und Bewegungen auf dem Gesammtgebiet der Wissenschaft, Technik, Litteratur und Kunst, hrsg. v. Bechhold. Frankfurt a. M. [wöch.]	1068 Ger.
Varšava, Izv. Univ. ...	Варшавскія университетскія извѣстія. Варшава [Bulletin de l'Université Impériale de Varsovie].	331 Rus.
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Věst. orošč. i gorn. děla Kavk., Tiflis.	Вѣстникъ орошенія и горнаго дѣла на Кавказѣ. (Приложеніе къ газетѣ "Кавказъ." Тифлисъ [Messager de l'irrigation et de l'industrie minière au Caucase. Suppl. au Journal "Le Caucase."] Tiflis].	350 Rus.
Věst. zolotopromyšl., Tomsk	Вѣстникъ золото-промышленности и горнаго дѣла вообще. Томскъ [Messager de l'industrie aurifère et des mines en général. Tomsk].	361 Rus.
Vict. Ann. Rep. Secr. Mines, Melbourne	Victoria, Department of Mines. Annual Report of the Secretary for Mines and Water Supply.	18 Vic.
Vict. Nat., Melbourne ...	The Victorian Naturalist. Melbourne ...	19 Vic.
Washington, D.C., Dept. Int. Rep. Geol. Surv.	Department of the Interior. Annual Report of the U.S. Geological Survey, Washington, D.C.	490 U.S.
Washington, D.C., Rep. Smithsonian Inst., Nation. Mus.	Smithsonian Institution. U.S. National Museum. Annual Report of the Board of Regents of the Smithsonian Institution, Washington. D.C.	449 U.S.
Washington, D.C., Smithsonian Inst., Nation. Mus. Proc.	Smithsonian Institution. U.S. National Museum. Proceedings, Washington, D.C.	447 U.S.
Washington, D.C., U.S. Dept. Agric., Mon. Weath. Rev.	Monthly Weather Review. (U.S. Department of Agriculture), Washington, D.C.	527
Washington, D.C., U.S. Dept. Int. Bull. Geol. Surv.	Department of the Interior. Bulletin of the United States Geological Survey, Washington, D.C.	486 U.S.
Yorks. Proc. Geol. Polyt. Soc.	Proceedings of the Yorkshire Geological and Polytechnic Society, Halifax.	430 U.K.
Zs. allg. Physiol., Jena ...	Zeitschrift für allgemeine Physiologie, hrsg. v. Max Verworn. Jena. [unbestimmt.]	1279 Ger.

Zs. anal. Chem., Wiesbaden	Zeitschrift für analytische Chemie, hrsg. v. Fresenius etc. Wiesbaden. [2 monatl.]	1155 Ger.
Zs. angew. Chem., Berlin ...	Zeitschrift für angewandte Chemie, hrsg. v. Fischer u. Wenghöffer. Berlin. [wöch.]	1156 Ger.
Zs. anorg. Chem., Hamburg	Zeitschrift für anorganische Chemie, hrsg. v. Lorenz u. Küster. Hamburg. [12–18 H. jährl.]	1158 Ger.
Zs. Calciumcarbidfabr., Berlin	Zeitschrift für Calciumcarbid-Fabrikation und Acetylen-Beleuchtung, red. v. Ludwig. Schöneberg - Berlin. [wöch.]	1172 Ger.
Zs. Elektroch., Halle ...	Zeitschrift für Elektrochemie, hrsg. v. Nernst u. Borchers. Halle. [wöch.]	1177 Ger.
Zs. Instrumentenk., Berlin	Zeitschrift für Instrumentenkunde, red. v. Lindeck. Berlin. [monatl.] Nebst Beiblatt: Deutsche Mechaniker-Zeitung. Vereinsblatt der deutschen Gesellschaft für Mechanik und Optik.	1197 Ger.
Zs. KohlensäureInd., Berlin	Zeitschrift für die gesammte Kohlensäure-Industrie, red. v. Wender. Berlin. [½ monatl.] Nebst Beibl.: Die Industrie comprimirter Gase.	1201 Ger.
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