

**SMITHSONIAN MISCELLANEOUS  
COLLECTIONS. 1313. A  
BIBLIOGRAPHY OF THE  
ANALYTICAL CHEMISTRY OF  
MANGANESE, 1785-1900**

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Smithsonian Miscellaneous Collections. 1313. A Bibliography of the Analytical Chemistry of Manganese, 1785-1900 by Henry P. Talbot & John W. Brown

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**HENRY P. TALBOT & JOHN W. BROWN**

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LETTER OF TRANSMITTAL.

WASHINGTON, May 11th, 1901.

The Committee on Indexing Chemical Literature, appointed in 1882 by the American Association for the Advancement of Science, has voted to recommend to the Smithsonian Institution for publication the following:

"A Bibliography of the Analytical Chemistry of Manganese, 1785-1900," by Henry P. Talbot and John W. Brown.

This forms one of the following series:

Index to the Literature of Uranium, 1785-1885, by Henry Carrington Bolton, 1885.

Index to the Literature of Columbium, 1801-1887, by Frank W. Traphagen, 1888.

Index to the Literature of the Spectroscope, by Alfred Tuckerman, 1888.

Index to the Literature of Thermodynamics, by Alfred Tuckerman, 1890.

A Bibliography of the Chemical Influence of Light, by Alfred Tuckerman, 1891.

A Bibliography of Aceto-Acetic Ester, by Paul H. Seymour, 1894.

Index to the Literature of Didymium, 1842-1893, by A. C. Langmuir, 1895.

Indexes to the Literature of Cerium and Lanthanum, by W. H. Magec, 1895.

A Bibliography of the Metals of the Platinum Group, by Jas. Lewis Howe, 1897.

Review and Bibliography of the Metallic Carbides, by J. A. Mathews, 1898.

Index to the Literature of Thallium, 1861-1897, by Miss Martha Doan, 1898.

Index to the Literature of Zirconium, by A. C. Langmuir and Charles Baskerville, 1899.

HENRY CARRINGTON BOLTON,  
*Chairman.*

MR. S. P. LANGLEY,  
*Secretary Smithsonian Institution.*

U.S. - 31-105  
Revised 10-16-29 E. L. H.





## PREFACE.

In 1875 Dr. H. Carrington Bolton published an "Index to the Literature of Manganese, 1596-1874," comprising the references to the entire available journal literature relating to manganese and its compounds which had appeared before the latter date. The general plan of his index did not, however, provide for the separate classification of the articles containing analytical data, and as the journal literature since 1874 has increased so enormously in volume as to render the search for such data very laborious, it was deemed worth while to compile a separate bibliography bearing upon the qualitative detection and quantitative separation and determination of manganese, for the use of analytical chemists. For this purpose Dr. Bolton's work has been reviewed almost from its beginning, and while we are in part indebted to his "Index" for the references from 1785 to about 1830 (having received his permission to make use of them), yet a number of these early journals were independently examined by us as indicated in our list. From 1830 the compilation is practically independent, although we desire to express our obligation to the Bolton "Index" for the opportunity afforded for the verification of a portion of our work. All the originals of the references have been examined except those marked with an asterisk.

The compilation of material for this Bibliography was practically completed when the "Bibliography of Steel-Works Analysis," published by Brearley in the *Chemical News*, 1899, came to our attention. We are indebted to this Bibliography for an opportunity to verify a portion of our later references and for some four or five references which we had omitted.

The abbreviations used in this Bibliography are those recommended by the Committee on Indexing Chemical Literature of the American Association for the Advancement of Science. The original reference is placed first, and, in general, articles corresponding to references which follow those to the *Chemisches Centralblatt* or the *Jahresbericht der Chemie* are decidedly briefer than the original papers. It has not been practicable, however, to rigidly maintain this distinction.

The Subject Index has been based upon such an examination of the original articles as was possible with a reasonable expenditure of time, and is based therefore upon the salient points rather than upon minute details, although an attempt has been made to carry the subdivision of subjects as far as possible. Under the heading "Applications of Quantitative Methods" (page 111 *et seq.*), only those references are, in general, included in which the title of the article specifies the material analyzed. This is particularly true of irons, steels, ferromanganese, and spiegeleisen.

We desire to express our obligation to Dr. H. C. Bolton for the permission to make use of his "Index," as well as for assistance in the examination of a file of journals, and to Mr. A. C. Davis for his valuable assistance in the examination of proof-sheets.

This compilation was made possible by a ready access to the valuable libraries of the Massachusetts Institute of Technology, notably the William Ripley Nichols Chemical Library, but we also wish to express our appreciation of the courtesies extended to us by the Boston Public Library, the Library of the American Academy of Arts and Sciences, the Boston Society of Natural History, the Surgeon-General's Office at Washington, the Library of Congress, the libraries of Yale, Columbia, Lehigh, and Harvard Universities, the Massachusetts College of Pharmacy, and the John Crerar and Astor Libraries. Professor James Lewis Howe's excellent "Bibliography of the Platinum Metals" has served as a model for the arrangement of our data.

HENRY P. TALBOT.

JOHN W. BROWN.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,  
BOSTON

JANUARY, 1902.

LIST OF JOURNALS EXAMINED IN THE PREPARATION OF  
THIS BIBLIOGRAPHY.

- American Chemical Journal, 1 (1879)—24 (1900).  
 American Chemist, 1 (1870)—7 (1877).  
 American Journal of Science (Silliman), 1 (1818)—[4] 7 (1900).  
 Analyst, 1 (1876)—25 (1900).  
 Annalen de Physik (Gren, Gilbert, Poggendorff, Wiedemann), 1 (1799)—[2] 237 (1877).  
 Annalen der Chemie [Pharmacie] (Liebig), 1 (1832)—313 (1900).  
 Annales de chimie et de physique [2], 40 (1829)—[7] 21 (1900), except [3] 38 and 39.  
 Annals of Philosophy, 1 (1813)—[2] 12 (1826).  
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 Chemiker Zeitung, 3 (1879)—25 (1900), except volume 5.  
 Chemische Industrie, 8 (1885)—15 (1892) and 21 (1898)—23 (1900).  
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 Iron, 1 (1872)—41 (1893).  
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 Jahresbericht über die Fortschritte der Chemie, 1847—1891.  
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 Journal of the Chemical Society (London), 1 (1841)—78 (1900).  
 Journal für Chemie (Schweigger), 1 (1811)—69 (1833).  
 Journal of the Franklin Institute, 1 (1826)—143 (1897).  
 Journal of the Iron and Steel Institute, 1874—1900.  
 Journal für praktische Chemie, 1 (1834)—[2] 62 (1900).  
 Journal of the Society of Chemical Industry, 1 (1882)—19 (1900).  
 Mittheilungen aus der technischen Gewerbe Museum, Wien, 1891—1899.  
 Monatshefte für Chemie, 1 (1880)—21 (1900).