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INDEX

TO THE

LITERATURE OF COLUMBIUM

BY

F. W. TRAPHAGEN,

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SMITHSONIAN MISCELLANEOUS COLLECTIONS.

SMITHSONIAN MISCELLANEOUS COLLECTIONS.

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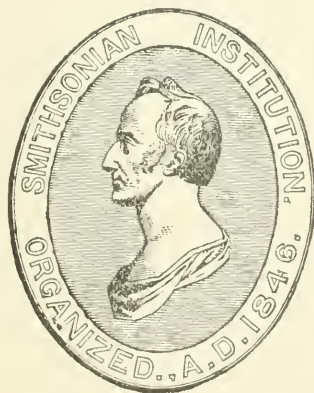
LITERATURE OF COLUMBIUM:

1801-1887.

BY

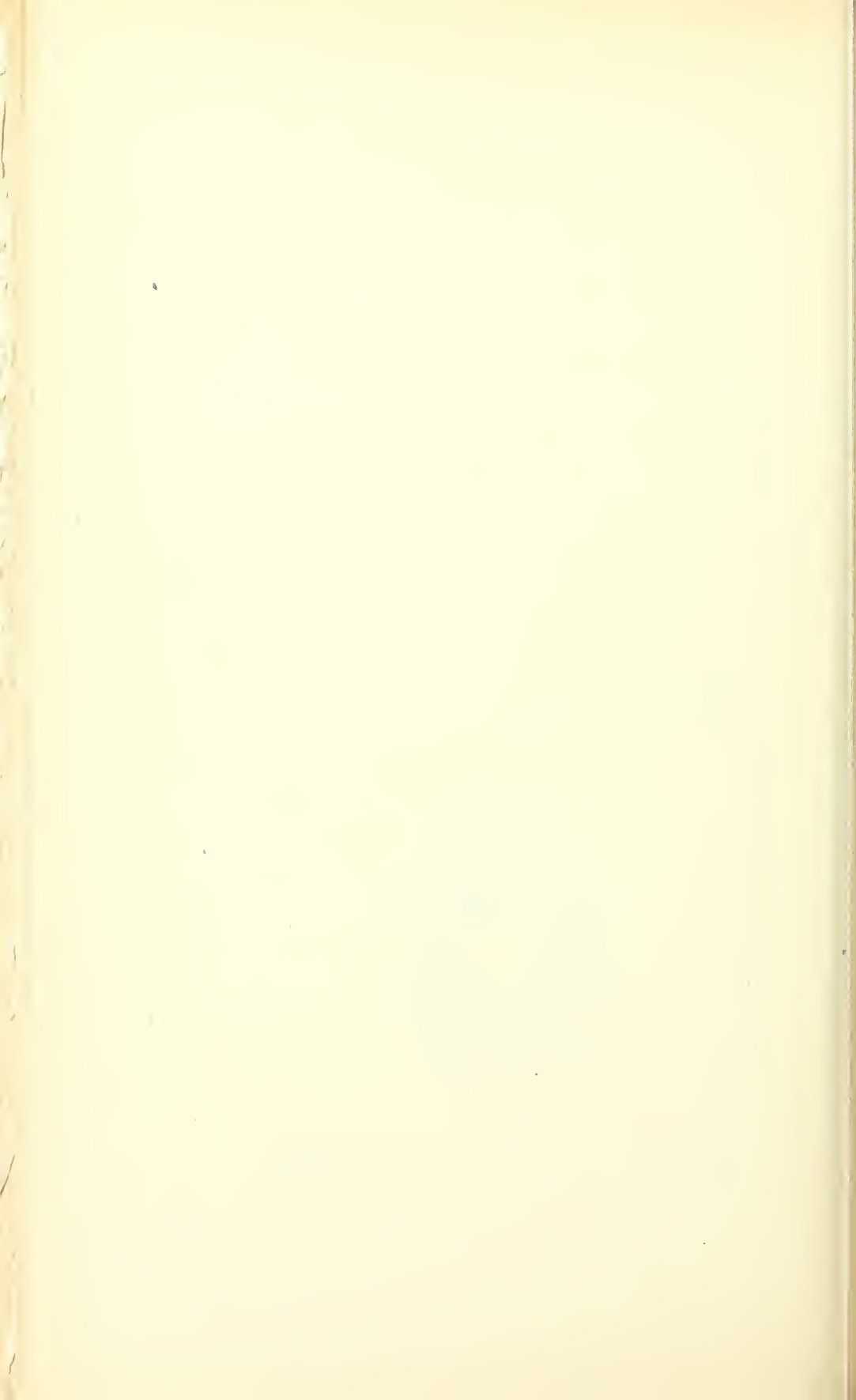
FRANK W. TRAPHAGEN, PH. D.

PROFESSOR OF CHEMISTRY IN THE COLLEGE OF MONTANA,
AND IN THE MONTANA SCHOOL OF MINES.



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P R E F A C E .

The following "Index to the Literature of Columbium" has been published upon the recommendation of the Committee on Indexing Chemical Literature, of the American Association for the Advancement of Science. In its original draft the word "niobium" was used in place of "columbium;" but upon suggestion from members of the Committee the author consented to a change. It is well known that the name columbium, originally given by Hatchett, has clear priority; while "niobium," and its supposed twin "pelopium," grew out of errors made by Rose. Although in European treatises the name "niobium" has generally been adopted, no good reason for the substitution has ever been offered, and all the accepted rules of nomenclature demand the retention of columbium. This note has been written at the request of Professor Traphagen.

F. W. CLARKE.

INDEX TO THE LITERATURE OF COLUMBIUM, 1801-1887.

BY FRANK W. TRAPHAGEN.

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1801..	HATCHETT -----	Discovery of element..	Phil. Trans. Roy. Soc., 1802, xcii, 49. Chem. J., Crell, 1802, 1, 197, 257, 352. Ann. der Phys., Gren, x, 500; xi, 120. Nicholson's J., Jan., 1802, 32.
1809..	WOLLASTON -----	Identity of columbium and tantalum.	Phil. Trans. Roy. Soc., 1809, xcix, 246. J. für Chem., Schweigger, 1, 520.
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1854.	CONNELL -----	Name -----	Phil. Mag. [4], VII, 461. Am. J. Sci. [2], XVIII, 892.

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1860--	VON KOBELL-----	Dianium and dianic acid.	Bull. d. k. bayr. Acad. d. Wis- sensch., II Classe, Sitzung V, 10, Mar., 1860. Ann. Chem., Liebig, cxiv, 337. J. prakt. Chem., lxxix, 291. Vierteljahrscr. pr. Pharm., ix, 374. Chem. Centrbl., 1860, 695. Ann. chim. phys. [3], lix, 477. Rep. chim. pure., ii, 360. Am. J. Sci. [2], xxx, 123. Jsb. Chem., 1860, 150, 781.
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1852--	HUNT-----	Columbite and samarskite.	Am. J. Sci. [2], XIV, 340. Pharm. Centrbl., 1853, 341.
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1860	BERZELIUS	Mineral from Ytterby	Afhand. i Fisik, Kemi, och Miner., iv, 281. Jsb. Chem., 1860, 780.
1860	DESCLOIZEAUX	Wöhlerite	Ann. Min. [5], xvi, 229. Jsb. Chem., 1860, 780.
1860	KOKSCHAROW	Aeschynite	Materialien zur Miner., Russlands, iii, 384. Jsb. Chem., 1860, 781.
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1860	DEVILLE and DAMOUR.	Columbite, euxenite	Inst., 1861, 152. Jsb. Chem., 1860. Note, page 152.
1861	HERMANN	Columbite, samarskite	J. prakt. Chem., lxxxiii, 106, 317. Rep. chim. pure., iv, 50. Jsb. Chem., 1861, 209.
1861	SCHRAUF	Columbite	Wien. Akad. Ber., xliv, 2d Abth., 445. Jahrb. Min., 1862, 234
1862	H. ROSE	Columbite, samarskite	Ber., 1862, 138, 166. Chem. Centrbl., 1862, 262. J. prakt. Chem., lxxxv, 438. Rep. chim. pure., iv, 456. Am. J. Sci. [2], xxxv, 427. Jsb. chem., 1862, 753.
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1863	LETTSON	Crystalline form of columbite.	Phil. Mag. [2], xxv, 41. Jahrb. Min., 1863, 594.
1863	MICHAELSON	Bragite, tyrite	J. prakt. Chem., xc, 108. Jahrb. Min., 1864, 236.
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1863	CHYDENIUS	Analysis of pyrochlore.	Jsb. Chem., 1863, 831.
1863	FINKENER and STEPIENS.	Composition of samarskite.	Verhandl. Min., St. Pet., 1863, 13.
1864	GIBBS	Action of hydrofluoric acid on columbite.	Am. J. Sci. [2], XXXVII, 355. Chem. News, x, 37, 49. Zeitschr. Chem., 1865, 16. J. prakt. Chem., xciv, 121. Chem. Centrbl., 1864, 990. Zeit. Anal. Chem., III, 399. Jsb. Chem., 1864, 985.
1864	BLOMSTRAND	Columbite	Oefversigt af Akad. Förh., 1864, xxi, 541. J. prakt. Chem., xcvi, 46. J. prakt. Chem., xcvi, 103, 108, 123, 128. Jahrb. Min., 1866, 89. Jsb. Chem., 1865, 898.
1865	HERMANN	Aeschynite, samarskite, Fergusonite, pyrochlore, Wöhlerite.	N. Arch. ph. nat., xxv, 24.
1865	MARIGNAC	Columbite	Am. J. Sci. [2], XLII, 248.
1866	SHEPARD	Specific gravity of columbite.	Jahrb. Miner., 1867, 198. Jsb. Chem., 1866, 944.
1866	BLOMSTRAND	Analysis of columbite.	Om tantalmetalliana, Lund., 1866. J. prakt. Chem., xcix, 40. N. Arch. ph. nat., xxvi, 337. Jsb. Chem., 1866, 944.
1866	HERMANN	Analysis of columbite and aeschynite.	J. prakt. Chem., xcvi, 350. Jsb. Chem., 1866, 945.
1866	CHYDENIUS	Analysis of euxenite	Bull. Soc. Chim. [2], vi, 433. Zeitschr. Chem., 1867, 94. Chem. Centrbl., 1867, 751. Jsb. Chem., 1866, 946.
1867	HERMANN	Imenodorutile, analysis	J. prakt. Chem., c, 100. Bull. Soc. Chim. [2], viii, 42. Jsb. Chem., 1867, 997.
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1869	RAMMELLSBERG	Yttrotantalite, pyrochlore, euxenite.	Ber., I, 224; II, 87, 216. Zeitschr. Chem., xii, 442. Zeitschr. d. deutsch. geolog. Ges., xxi, 555. Jsb. Chem., 1869, 1229.
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1871--	KNOP -----	Pyrochlore-----	Ann. der Phys., cxliv, 56, 191. J. Chem. Soc., xxv, 189. Chem. Centrbl., 1871, 511. Zeitschr. Geolog. Ges., xxiii, 656.
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1877--	J. L. SMITH-----	Minerals, columbite, samarskite, euxenite, Hatchettolite, Rogersite, Fergusonite.	Am. J. Sci. [3], xiii, 359; xiv, 128. Ann. chim. phys. [5], xii, 255. Zeitschr. Kryst., i, 499. Jahrb. Min., 1877, 728. C. R., lxxxiv, 1036. Abs. J. Chem. Soc., xxxii, 576
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1877	NORDENSKIÖLD	Analysis of minerals	Zeitschr. Kryst., I, 503. Jsb. Chem., 1877, 1346.
1877	DAMOUR	Analysis of samarskite.	N. Petersb. Acad. Bull., XXIII, 463. Zeitschr. Kryst., I, 284.
1877	KNOP	Dysanalite	Jahrb. Min., 1877, 647.
1877	MALLET	Sipylite	Am. J. Sci. [3], XIV, 397. Zeitschr. Kryst., II, 192. Jahrb. Min., 1878, 203. Chem. News, XXXVI, 158. Abs. J. Chem. Soc., XXXII, 853.
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1879	BRÖGGER	Aeschynite	Zeitschrift Kryst., III, 481. Jsb. Chem., 1879, 1238.
1879	SCHARIZER	Columbite	Verhand. Geol. Reichs aust., 1879, 243. Zeitschr. Kryst., IV, 633. Chem. News, XLI, 244.
1880	COMSTOCK	Columbite	Am. J. Sci. [3], XIX, 131. Zeitschr. Kryst., IV, 616.
1880	JANOVSKY	Niobite	Wien. Acad. Ber., LXXX, 34. Zeitschr. Kryst., V, 400. Ber. XIII, 139. Min. Petr. Mitth. [2], III, 94.
1880	BLOMSTRAND	Polyerase	Zeitschr. Kryst., IV, 524. Jsb. Chem., 1878.
1880	SHEPARD	Yttrotantalite	Am. J. Sci. [3], XX, 56.
1880	HIDDEN	Fergusonite	Am. J. Sci. [3], XX, 57.
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1881	HALLOCK	Columbite	Am. J. Sci. [3], XXI, 412. Zeitschr. Kryst., VI, 208.
1881	MALLET	Sipylite	Am. J. Sci., XII, 52. Zeitschr. Kryst., VI, 208.
1881	DUNNINGTON	Microlite	Am. Chem. J., III, 130. Zeitschr. Kryst., VI, 112.
1882	HIDDEN	Columbite	Am. J. Sci. [3], XXIV, 372. Jsb. Chem., 1882, 1573.
1882	G. C. HOFFMANN	Samarskite	Am. J. Sci. [3], XXIV, 475. Jsb. Chem., 1882, 1573.
1882	SEAMON	Fergusonite	Chem. News, XLVI, 205. Abs. J. Chem. Soc., XLIV, 32.
1883	ROSCOE	Samarskite	Monit. Scientif. [3], XIII, 246. Jsb. Chem., 1883, 361.
1884	DONALD	Samarskite	Chem. News, XLIX, 259. Jsb. Chem., 1884, 1994.

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1884--	SCHAEFFER -----	Columbite, analysis ---	Am. J. Sci. [3], XXVIII, 340.
1886--	DANA -----	Columbite-----	Zeitschr. Kryst., XII, 266-274. Abs. J. Chem. Soc., 1887, 20.
1887--	COSSA -----	Columbite from Gra- veggia.	Gazzetta, XVII, 31-37. Abs. J. Chem. Soc., 1887, 645.
1887--	PICCINI-----	Mineral associated with columbite.	Zeitschr. Kryst. Min., XIII, 302. Abs. J. Chem. Soc., 1887, 1085.
1887--	HEADDON -----	Columbite from Colo- rado.	Zeitschr. Kryst. Min., XII, 513. Abs. J. Chem. Soc., 1887, 347.

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