

INDEX TO THE LITERATURE OF COLUMBIUM: 1801-1887

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Index to the literature of Columbiun: 1801-1887 by Frank W. Traphagen

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FRANK W. TRAPHAGEN

**INDEX TO THE
LITERATURE OF
COLUMBIUM: 1801-1887**

Smithsonian Institution
Washington, D. C.

SMITHSONIAN MISCELLANEOUS COLLECTIONS.

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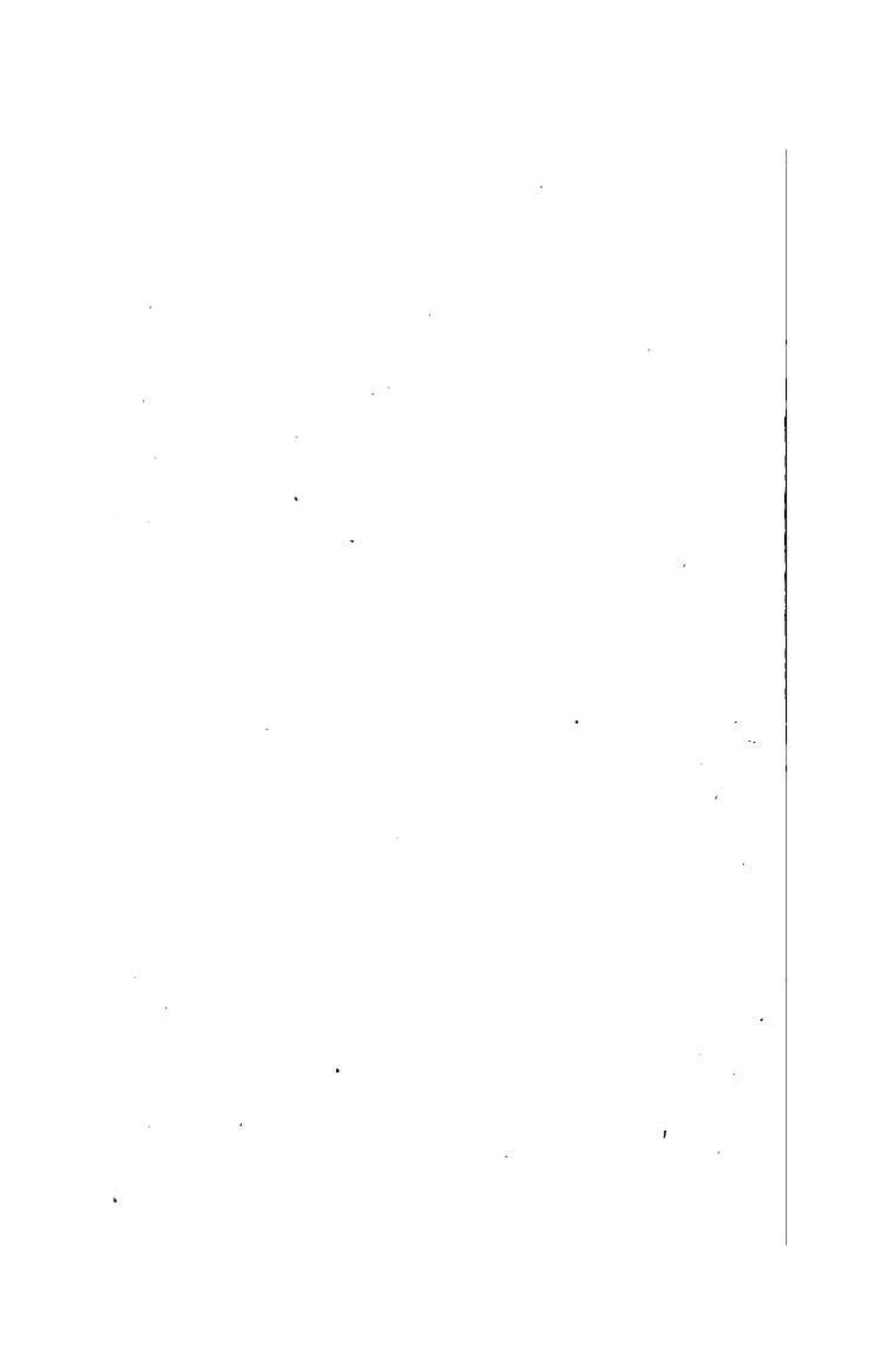
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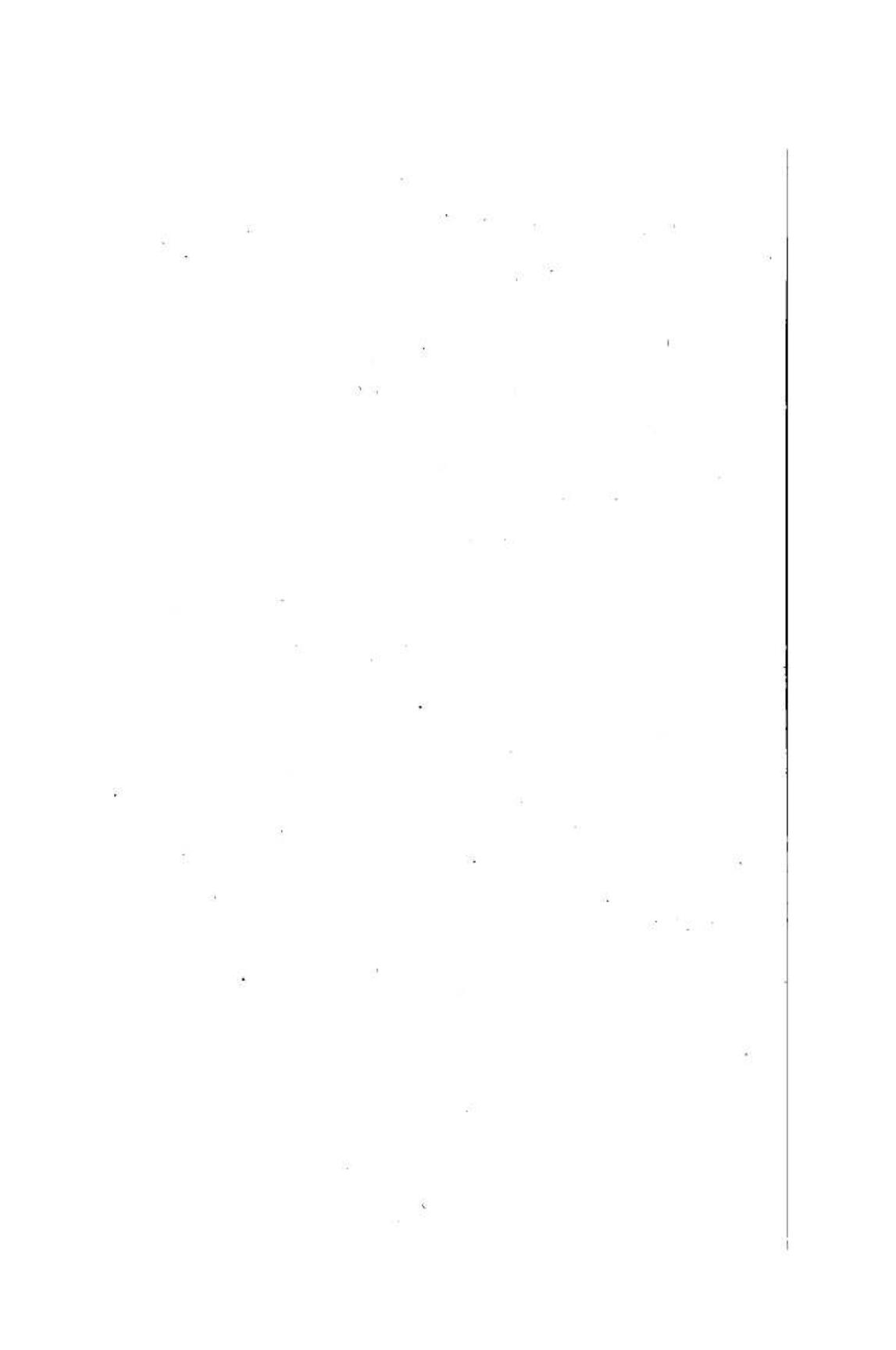
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P R E F A C E.

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.



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DATE.	AUTHOR.	REMARKS.	REFERENCES.
1801.	HATCHETT	Discovery of element	Phil. Trans. Roy. Soc., 1802, xxi, 49. Chem. J., Crell, 1802, i, 197, 257, 852. Ann. der Phys., Gren, x, 500; xi, 120. Nicholson's J., Jan., 1802, 32.
1809.	WOLLASTON	Identity of columbiun and tantalum.	Phil. Trans. Roy. Soc., 1809, xcix, 246. J. für Chem., Schweigger, i, 620. Ann. der Phys., Gren, XLII, 50.
1811.	WOLLASTON	Element	Ann. der Phys., Gren, XXXVII, 98. Königl. Acad. der Wiss., 1817.
1817.	LEONHARD and VOGEL.	Identity of columbiun and tantalum.	Ann. der Phys., Pogg., XLVIII, 91.
1839.	WÖHLER	Properties of oxide	Ber. d. Chem. Ges., 1844.
1840.	H. ROSE	Researches	J. prakt. Chem., XXXIV, 86.
1844.	H. ROSE	Researches	Ann. der Phys., Pogg., LXIII, 817.
1846.	H. ROSE	Researches on compounds and minerals.	Ann. der Phys., Pogg., LXIX, 115. Berzelius' Jsb., 1846, XXV, 158.
1846.	HERMANN	Oxides	J. prakt. Chem., XXXVII, 91.
1847.	H. ROSE	Acids in columbite	Ann. der Phys., Pogg., 1847, 4.
1848.	H. ROSE	Effect of temperature on specific weight.	J. prakt. Chem., XL, 219.
1848.	SCHERRER	Niobic and pelopic acids in Wöhlerite.	J. prakt. Chem., XLIII, 254.
1848.	HERMANN	Ilmenic, niobic, and pelopic acids.	Ann. der Phys., Pogg., LXXII, 565. Jsb. Chem., 1848, 1204. Mineralog. Forsch., Kenn., 1849, 197.
			J. prakt. Chem., XXXI, 94; XL, 475. Berzelius' Jsb., XXV, 875. Ann. Chem., Liebig, LXI, 264. Jsb. Chem., 1848, 1205.

DATE.	AUTHOR.	REMARKS.	REFERENCES.
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1848.	SCHEERER	Niobic and pelopic acids in euxanite and polycrase.	Ann. der Phys., Pogg., L, 149; LXXII, 266, 568. Berzelius' Jsb., XXXI, 179; XXXVI, 874. Jsb. Chem., 1848, 1206. Jsb. Chem., 1848, 1208.
1848.	H. Rose	Niobic, ilmenic, and pelopic acids.	J. prakt. Chem., XXXVIII, 91, 119.
1848.	HERMANN	Ilmenium	Ann. der Phys., Pogg., LXXI, 167. Ber. d. Chem. Ges., 1847, 141. Rammels. Handw., 3d supp., 105, 129. Jsb. Chem., 1848, 1209.
1848.	PEBETZ	Niobic, ilmenic, and pelopic acids.	J. prakt. Chem., XL, 475; XLII, 129; XLIV, 216. Jsb. Chem., 1848, 1210.
1848.	HERMANN	Ilmenic acid in pyro-chlore and columbite.	Ann. der Phys., Pogg., LXXI, 157; LXXXIII, 449. Pharm. Centrbl., 1848, 169.
1848.	H. Rose	Identity of ilmenium and niobium.	Jsb. Chem., 1848, 404. Ann. der Phys., Pogg., LXXXIII, 318. Ann. Chem., Liebig, LXVIII, 165.
1848.	H. Rose	Properties metal and oxides.	Pharm. Centrbl., 1848, 145. Jsb. Chem., 1848, 405. Ann. der Phys., Pogg., LXXXIV, 85.
1848.	H. Rose	Pelopium	Ann. Chem., Liebig, LXXXVIII, 165. Pharm. Centrbl., 1848, 489. J. prakt. Chem., XLIV, 220. Arch. ph. nat., VIII, 205. Jsb. Chem., 1848, 405.
1850.	HERMANN	Niobates	J. prakt. Chem., L, 104-172. 156-197. Jsb. Chem., 1850, 748.
1851.	EBELMAN	Crystals of niobic acid.	O. R., XXXII, 330, 713. Instit., 1851, 78, 180. Pharm. Centrbl., 1851, 293. Ann. chim. phys., XXXIII, 34. J. prakt. Chem., LIV, 148. Ann. Chem., Liebig, LXXX, 205. Jsb. Chem., 1851, 14.
1853.	H. Rose	Researches, identification, and compounds chlorides, etc.	Ann. der Phys., Pogg., XC, 456. Ber., 1853, 604. Ann. Chem., Liebig, LXXXVIII, 246. J. prakt. Chem., LX, 468. Pharm. Centrbl., 1854, 11. Instit., 1854, 16. Jsb. Chem., 1853, 358.
1854.	CONNELL	Name	Phil. Mag. [4], VII, 461. Am. J. Sci. [2], XVIII, 892.

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1854..	CONNELL -----	Name.....	Jsb. Chem., 1854, 858.
1855..	HERMANN -----	Researches on ilmenium, niobium, and tantalum.	J. prakt. Chem., LXV, 54.
1856..	HERMANN -----	Niobium, ilmenium. Researches.	J. prakt. Chem., LXVIII, 66. Chem. Centrbl., 1856, 738. Chem. Gaz., 1857, 10. Ann. der Phys., Pogg., XCIX, 619; c, 340.
1856..	OESTEN -----	Researches.	J. prakt. Chem., LXX, 120. Jsb. Chem., 1856, 661.
1858..	HERMANN -----	Separation of niobic and tantalic acids. Remarks on pelopin acid.	Ann. der Phys., Pogg., CIII, 148. J. prakt. Chem., LXXXIII, 877, 508. Chem. Centrbl., 1858, 165. Jsb. Chem., 1858, 149.
1858..	OESTEN -----	Researches	J. prakt. Chem., LXXXI, 897; LXXXV, 62. Ann. der Phys., Pogg., CIII, 148. Ber., 1858, 338.
1858..	H. Rose	Niobic and niobous acids, metallic niobium, chloride, etc.	J. prakt. Chem., LXXXIV, 458, 461. Ann. der Phys., Pogg., CIV, 810. Chem. Centrbl., 1858, 598. Ann. Chem., Liebig, CVIII, 230. Instit., 1858, 354. Ann. chim. phys. [8], LIV, 426. Clemento, VIII, 275. Jsb. Chem., 1858, 151. Ber., 1858, 408.
1858..	H. Rose	Compounds	J. prakt. Chem., LXXXIV, 461. Chem. Centrbl., 1858, 681. Ann. Chem., Liebig, CVIII, 232. Instit., 1858, 370. Ann. der Phys., Pogg., CIV, 482. Jsb. Chem., 1858, 158.
1858..	H. Rose	Niobium sulphide.	Ber., 1858, 445. J. prakt. Chem., LXXXV, 69. Chem. Centrbl., 1858, 758.
1858..	H. Rose	Niobiumfluoride	Ann. Chem., Liebig, CVIII, 285. Instit., 1859, 5. Ann. der Phys., Pogg., CIV, 424. Ber., 1858, 448.
1859..	H. Rose	Chlorides and fluorides.	J. prakt. Chem., LXXXV, 71. Chem. Centrbl., 1858, 754. Ann. Chem., Liebig, CVIII, 234. Instit., 1859, 6. Ann. der Phys., Pogg., CIV, 561. Ber., 1859, 549.
1859..	H. Rose	Nitrate	J. prakt. Chem., LXXXVIII, 188. Chem. Centrbl., 1859, 849; 1860, 181. Ann. chim. phys. [8], LVIII, 104. Ann. der Phys., Pogg., CVIII, 278, 466. Jsb. Chem., 1859, 158. Ber., 1859, 12. J. prakt. Chem., LXXXVI, 246.