

Stopping for Ion : He , Target = Ir

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1900	Sklodowska-Curie, Mme. 'Sur la Penetration des Rayons de Becquerel non Deviables par le Champ Magnetique' <i>Acad. Sci. Paris: Comptes Rendus, 130, 76-79 (1900)</i> Comment : S. 5-7 MeV He -> Air, Al. The earliest measurement of ion stopping in matter.	1900-Sklo 1680
1913	Marsden, E. Taylor, T. S. 'The Decrease in Velocity of Alpha-Particles in Passing through Matter' <i>Proc. Roy. Soc., A88, 443-454 (1913)</i> Comment : S. 5-8 MeV He -> Al, Cu, Au, Air, Mica	1913-Mars2 0088
1924	Rutherford, E. 'The Capture and Loss of Electrons by Alpha Particles' <i>Phil. Mag., 47, 277 (1924)</i> Comment : S. He (5-7 MeV) -> Air, H, He, Mica	1924-Ruth 1994
1925	Jacobsen, T. " <i>Nature, June 19, 858 (1925)</i> Comment : S, He (5-7 MeV) -> Air	1925-Jaco 1990
1927	Briggs, G. H. 'The Decrease of Velocity of Alpha Particles from Radium C' <i>Proc. Roy. Soc., A114, 341-354 (1927)</i> Comment : S. 3 - 5.3 MeV He -> Mica Rel. To Air	1927-Brig 0025
1934	Mano, G. 'Recherches Sur L'Absorption Des Rayons Alpha' <i>Ann. de Physique, 1, 408-531 (1934)</i> Comment : S. 4.2-7.7 MeV He -> H2, He, Ne, Ar, Air	1934-Mano 0085
1944	Gray, L. H. 'The Ionization Method of Measuring Neutron Energy' <i>Proc. Comb. Phil. Soc., 40, 72-102 (1944)</i> Comment : S. H, He (.25 -8 MeV) -> He, N, O, Ne, Ar, Air. Early paper on stopping and ionization effects of charged particles.	1944-Gray 1578
1949	Appleyard, R. K. 'Stopping Power of Liquid Water for Alpha Particles' <i>Nature, 163, 526 (1949)</i> Comment : S. He (4-5 MeV) -> H2O, Air. Relative measurements.	1949-Appl 1579
1953	Weyl, P. K. 'The Energy Loss of Hydrogen, Helium, Nitrogen and Neon Ions in Gases' <i>Phys. Rev., 91, 289-96 (1953)</i> Comment : S. 150-450 keV H, D, He, N, Ne -> H2, He, Air, Ar	1953-Weyl 0131

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1959	Ramavataram, K. Porat, D. I. 'Measurement of Surface Density of Thin Foils' <i>Nucl. Inst. Methods, 4, 239-42 (1959)</i> Comment : S. 3.72, 4.33 MeV He -> Al, Ni, Ag, Au all rel. To Air	1959-Rama 0550
1966	Kerr, G. D. Hain, L. M. Underwood, N. Walther, A. W. 'Molecular Stopping Cross Sections of Air, N2, Kr, CO2 and CH4 for Alpha Particles' <i>Health Phys., 12, 1475-80 (1966)</i> Comment : S. 0.3-5 MeV He -> N2, Air, Kr, CO2, CH4	1966-Kerr 0793
1968	Hvelplund, P. 'Prisopgave' <i>Aarhus University P. 1-105 (In Danish) (1968)</i> Comment : S, dS. Many Ions (H-Hg) at 50-500 keV -> H, He, Ne, Ar, Kr, Xe, Air	1968-Hvel 0406
1969	Ramirez, J. J. Prior, R. M. Swint, J. B. Quinton, A. R. Blue, R. A. 'Energy Straggling of Alpha Particles through Gases' <i>Phys. Rev., 179, 310-14 (1969)</i> Comment : S, dS. 1-3.5 MeV He -> He, Air, Ar, Kr, Xe	1969-Rami 0388
1971	Hvelplund, P. 'Energy Loss and Straggling of 100-500 keV Atoms with 2 <= Z1 <= 12 in Various Gases' <i>Kgl. Danske Videnskab. Selskab Mat. Fys. Medd., 38, No. 4, P. 1-25 (1971)</i> Comment : S,dS. (100-500 keV) He, Li, Be, B, C, N, O, F, Ne, Na, Mg -> Air, He, Ne, H2, O2	1971-Hvel 0421
1972	Huebner, J. S. Skolil, L. L. 'The Residual Energy and Stopping Power of 210Po Alpha Particles in Air, CO2, and He' <i>Am. J. Phys., 40, 1177-78 (1972)</i> Comment : S. 3-5.3 MeV He -> Air, CO2, He	1972-Hueb 0666
1973	Chu, W. K. Ziegler, J. F. Mitchell, I. V. Mackintosh, W. D. 'Energy-Loss Measurements of 4He Ions in Heavy Metals' <i>Appl. Phys. Letters, 22, 437-39 (1973)</i> Comment : S. 2.0 MeV He -> Al, Si, V, Fe, Co, Ni, Cu, In, Ge, Mo, Sb, Te, Gd, Hf, Ta, W, Ir, Pt, Au, Pb	1973-Chu 3 0124
1976	Geary, M. J. Haque, A. K. M. M. 'The Stopping Power and Straggling for Alpha Particles in Tissue Equivalent Materials' <i>Nucl. Inst. Methods, 137, 151-5 (1976)</i> Comment : S, dS. 0.5-5.5 MeV He -> Air, Melinex, Mylar	1976-Gear 0912
1978	Ouseph, P. J. Mostovych, A. 'An Experiment to Measure Range, Range Straggling, Stopping Power and Energy Straggling of Alpha Particles in Air' <i>Am. J. Phys., 46, 742-744 (1978)</i> Comment : S,dS,R,dR. He (0.3-4.0 MeV) -> Air	1978-Ouse 1732

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1980	Thwaites, D. I. 'Stopping Cross Sections of Various Gases for Alpha Particles in the Energy Region 0.2-5.5 MeV' <i>Phys. Med. Biol.</i> , 25 (5), 865-875 (1980) <i>Comment : S. He (0.2-5.5 MeV) -> He, N, Ar, CH4, Air</i>	1980-Thwa 1489