

Citations for Ion = **He** , Target = **Air**

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
1913	Taylor, T. S. 'The Range and Ionization of the Alpha Particles in Simple Gases' <i>Phil. Mag., 26, 402-410 (1913)</i> Comment : R. 5.3, 5.5 MeV He -> H2, He, O2, Air	1913-Tayl 0118
1923	Phillip, K. 'Bremsung der Alpha-Strahlen in Flussigkeiten und Dampfen' <i>Z. Physik, 17, 23-41 (1923)</i> Comment : R. 5.5 MeV He -> Air, CO2, H2O, C2H5Oh, C6H6, C5H5N	1923-Phil 0098
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
1926	Meitner, L. Freitag, K. 'Uber Die Alpha-Strahlen Des Thc+C' und Ihre Verhalten Beim Durchgaug Durch Verschiedene Gase' <i>Z. Physik, 37, 481-517 (1926)</i> Comment : R. 5.3 MeV He -> Air, H2, H2O, CH4, N2, O2, CO, CO2, SO, SO2, CH3Br. Tracks In Cloud-Chamber.	1926-Meit 0090
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
1930	Harper, G. I. Salaman, I. 'Measurements on the Ranges of Alpha-Particles' <i>Proc. Roy. Soc., A127, 175-85 (1930)</i> Comment : R. 5.3-7.7 MeV He -> H2, Ne, O2, Air.	1930-Harp 0064

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1932	Mader, M. 'Reichweite und Gesamt-Ionisation von Alpha-Strahlen in Gasen' <i>Z. Physik, 77, 601-15 (1932)</i> <i>Comment : R. 5.3 MeV He -> Air, CO2, N2, O2. Ionization Extrapolated Ranges, Not Mean Ranges.</i>	1932-Made 0082
1934	Mano, G. 'Recherches Sur L'Absorption Des Rayons Alpha' <i>Ann. de Physique, 1, 408-531 (1934)</i> <i>Comment : S. 4.2-7.7 MeV He -> H2, He, Ne, Ar, Air</i>	1934-Mano 0085
1934	Naidu, R. 'Etude Des Courbes D'Ionisation Des Rayons Alpha' <i>Ann. de Physique, 1, 72-122 (1934)</i> <i>Comment : R. 5.3, 7.7 MeV He -> Air</i>	1934-Naid3 0512
1939	Schmieder, K. 'Bremsvermogen und Tragerbildung der Alpha-Strahlen in Gasen' <i>Ann. Physik, 35, 445-64 (1939)</i> <i>Comment : R. 5.3 MeV He -> Air, N2, O2, NO, N2O, NO2, CO, CO2, CH4, C2H4, Ne, Ar, Kr, N2+O2, N2+2O2, 2N2+O2</i>	1939-Schm 0112
1941	Colby, M. Y. Hatfield, T. N. 'An Apparatus for the Measurement of Alpha-Particle Range and Relative Stopping Power of Gases' <i>Rev. Sci. Inst., 12, 62-66 (1941)</i> <i>Comment : R. 5.3 MeV He -> Air, Ar. Ionization Extrapolated Ranges, Not Mean Ranges.</i>	1941-Colb 0035
1943	Hackman, D. Haxel, O. 'Energie und Reichweite Langsamer Alpha-Strahlen' <i>Z. Physik, 120, 486-92 (1943)</i> <i>Comment : R. 1-3 MeV He -> Air</i>	1943-Hack 0062
1944	Gray, L. H. 'The Ionization Method of Measuring Neutron Energy' <i>Proc. Comb. Phil. Soc., 40, 72-102 (1944)</i> <i>Comment : S. H, He (.25 -8 MeV) -> He, N, O, Ne, Ar, Air. Early paper on stopping and ionization effects of charged particles.</i>	1944-Gray 1578
1947	LaChapelle, T. S. 'Range of Np237 Alpha Particles in Air' <i>AECD 2496 P. 1-16 (1947)</i> <i>Comment : R. 4.7 MeV He -> Air</i>	1947-LaCh 0031
1947	Wytzes, S. A. VanDerMaas, G. J. 'A New Determination of the Mean Ranges of the Alpha-Particle from U-I and U-II' <i>Physica, 13, 49-61 (1947)</i> <i>Comment : R. 5.3 MeV He -> Air Rel. To 4.2 MeV He -> Air</i>	1947-Wyztz 0138

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1948	Gilbert, C. W. 'The Disintegration of Boron by Slow Neutrons' <i>Proc. Camb. Phil. Soc.</i> , 44, 447-52 (1948) <i>Comment</i> : R. 1.53-2.97 MeV He -> Air	1948-Gilb 0054
1949	Appleyard, R. K. 'Stopping Power of Liquid Water for Alpha Particles' <i>Nature</i> , 163, 526 (1949) <i>Comment</i> : S. He (4-5 MeV) -> H ₂ O, Air. Relative measurments.	1949-Appl 1579
1949	Faraggi, H. 'La Reaction 10B(n,alpha)Li* Et La Relation Parcours-Energie Pour Les Particules Alpha D'Energie Inferieure a 2Alphamev' <i>C. R. Acad. Sci.</i> , 229, 1223-25 (1949) <i>Comment</i> : R. 0.5-2.0 MeV He -> Air	1949-Fara 0050
1949	VanDerMaas, G. J. Yntema, I. 'A Determination of the Mean Range of the Alpha Particles of 235U' <i>Physica</i> , 15, 807-24 (1949) <i>Comment</i> : R. 4.4 MeV He Rel. To 4.2 MeV He -> Air	1949-VanD 0081
1951	Cuer, P. Lonchamp, J. P. 'Etude De La Reaction Des Neutrons Thermiques Sur Le Bore' <i>C. R. Acad. Sci.</i> , 232, 1824-26 (1951) <i>Comment</i> : R. 1.47, 1.78 MeV He, 0.84, 1.02 MeV 7Li -> Air, Emulsion	1951-Cuer 0126
1952	Evans, G. E. Barnett, C. F. Stier, P. M. DeRito, V. L. 'Extrapolated Ionization Ranges of Ions Heavier Than Protons' <i>ORNL-1278</i> , 17-21 (1952) <i>Comment</i> : R. (50-300 keV) H, He, N, Ne, Ar -> He, N ₂ , Ar, Air	1952-Evan 0057
1953	Cook, C. J. Jones, E. Jr. Jorgensen, . 'Range-Energy Relations of 10- to 250-keV Protons and Helium Ions in Various Gases' <i>Phys. Rev.</i> , 91, 1417-22 (1953) <i>Comment</i> : R. (4-250 keV) H, He -> H ₂ , Ar, Air, N ₂ , CO, CH ₄ , O ₂ . Ionization Ranges.	1953-Cook 0762
1953	Cooper, P. N. Crocker, V. S. Walker, J. 'Range-Energy Data from the 10B(n,alpha)7Li and 6Li(n,T)4He Reactions' <i>Proc. Phys. Soc. A</i> 66, 660-61 (1953) <i>Comment</i> : R. 1.47 MeV He, 2.75 MeV 3H -> Air	1953-Coop2 0037
1953	Evans, G. E. Stier, P. M. Barnett, C. F. 'The Stopping of Heavy Ions in Gases' <i>Phys. Rev.</i> , 90, 825-32 (1953) <i>Comment</i> : R. 20-250 keV He, N, Ne, Ar -> He, N ₂ , Ar, Air	1953-Evan 0048

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1953	Weyl, P. K. 'The Energy Loss of Hydrogen, Helium, Nitrogen and Neon Ions in Gases' <i>Phys. Rev.</i> , 91 , 289-96 (1953) <i>Comment</i> : S. 150-450 keV H, D, He, N, Ne -> H ₂ , He, Air, Ar	1953-Weyl 0131
1954	Barile, S. Webeler, R. Allen, G. 'Determination of the Ranges and Straggling of Low-Energy Alpha Particles in a Cloud Chamber' <i>Phys. Rev.</i> , 96 , 673-78 (1954) <i>Comment</i> : R, dR. 480-615 keV He -> Air	1954-Bari 0009
1959	Ramavataram, K. Porat, D. I. 'Measurement of Surface Density of Thin Foils' <i>Nucl. Inst. Methods</i> , 4 , 239-42 (1959) <i>Comment</i> : S. 3.72, 4.33 MeV He -> Al, Ni, Ag, Au all rel. To Air	1959-Rama 0550
1961	Riezler, W. Schepers, H. 'Ionisation und Energieverlust von Alpha-Teilchen in Verschiedenen Gasen' <i>Ann. Physik</i> , 8 , 270-277 (1961) <i>Comment</i> : R. S Rel. To Air 8.78 MeV He -> Air, He, Ne, Ar, Kr, H ₂ , N ₂ , O ₂ , CO, CO ₂ , CH ₄ , C ₂ H ₆ , C ₃ H ₈ , C ₄ H ₁₀	1961-Riez 0568
1965	LiuCheng, H. C. 'Range Energy Measurements in Gases' <i>Ph.D. Thesis. University of Southern California</i> (1965) <i>Comment</i> : R. 2-8 MeV He -> N ₂ , O ₂ , Air, Ar	1965-LiuC 0901
1966	Kerr, G. D. Hain, L. M. Underwood, N. Walthers, A. W. 'Molecular Stopping Cross Sections of Air, N₂, Kr, CO₂ and CH₄ for Alpha Particles' <i>Health Phys.</i> , 12 , 1475-80 (1966) <i>Comment</i> : S. 0.3-5 MeV He -> N ₂ , Air, Kr, CO ₂ , CH ₄	1966-Kerr 0793
1966	Rotondi, E. Geiger, K. W. 'The Measurement of Range-Energy Relation and Straggling of Alpha-Particles in Air using a Solid State Detector' <i>Nucl. Inst. Methods</i> , 40 , 192-96 (1966) <i>Comment</i> : R, dR. 0.5 - 5.6 MeV He -> Air	1966-Roto2 0251
1968	Hvelplund, P. 'Prisopgave' <i>Aarhus University P. 1-105 (In Danish)</i> (1968) <i>Comment</i> : 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.</i> , 179 , 310-14 (1969) <i>Comment</i> : S, dS. 1-3.5 MeV He -> He, Air, Ar, Kr, Xe	1969-Rami 0388

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1971	Hvelplund, P. 'Energy Loss and Stragglings of 100-500 keV Atoms with $Z=1$ to $Z=12$ in Various Gases' <i>Kgl. Danske Videnskab. Selskab Mat. Fys. Medd., 38, No. 4, P. 1-25 (1971)</i> <i>Comment : S,dS. (100-500 keV) He, Li, Be, B, C, N, O, F, Ne, Na, Mg -> Air, He, Ne, H₂, O₂</i>	1971-Hvel 0421
1971	Langley, R. A. 'Range-Energy Relations for Helium Ions and Protons in Ar, N₂, O₂, and Air (0.2 - 2.0 MeV).' <i>Phys. Rev. A, 4, 1868-72 (1971)</i> <i>Comment : R. 0.2-2.0 MeV H, He -> N₂, O₂, Ar, Air. Ranges Deduced From Ionization.</i>	1971-Lang 0457
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> <i>Comment : S. 3-5.3 MeV He -> Air, CO₂, He</i>	1972-Hueb 0666
1973	Al-Bedri, M. B. Harris, S. J. Sykes, D. A. 'The Dependence of Energy Stragglings on the Atomic Number of Absorber' <i>Nucl. Inst. Methods, 106, 241-43 (1973)</i> <i>Comment : dS. 5.2 MeV He -> He, Ne, Ar, Kr, CH₄, CO₂, N₂, Air.</i>	1973-Al 0472
1976	Geary, M. J. Haque, A. K. M. M. 'The Stopping Power and Stragglings for Alpha Particles in Tissue Equivalent Materials' <i>Nucl. Inst. Methods, 137, 151-5 (1976)</i> <i>Comment : S, dS. 0.5-5.5 MeV He -> Air, Melinex, Mylar</i>	1976-Gear 0912
1978	Ouseph, P. J. Mostovych, A. 'An Experiment to Measure Range, Range Stragglings, Stopping Power and Energy Stragglings of Alpha Particles in Air' <i>Am. J. Phys., 46, 742-744 (1978)</i> <i>Comment : S,dS,R,dR. He (0.3-4.0 MeV) -> Air</i>	1978-Ouse 1732
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., 25 (5), 865-875 (1980)</i> <i>Comment : S. He (0.2-5.5 MeV) -> He, N, Ar, CH₄, Air</i>	1980-Thwa 1489