

Citations for Target : **Air**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1900	Skłodowska-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> <i>Comment : S. 5-7 MeV He -> Air, Al. The earliest measurement of ion stopping in matter.</i>	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> <i>Comment : S. 5-8 MeV He -> Al, Cu, Au, Air, Mica</i>	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> <i>Comment : R. 5.3, 5.5 MeV He -> H2, He, O2, Air</i>	1913-Tayl 0118
1923	Phillip, K. 'Bremsung der Alpha-Strahlen in Flussigkeiten und Dampfen' <i>Z. Physik, 17, 23-41 (1923)</i> <i>Comment : R. 5.5 MeV He -> Air, CO2, H2O, C2H5Oh, C6H6, C5H5N</i>	1923-Phil 0098
1924	Rutherford, E. 'The Capture and Loss of Electrons by Alpha Particles' <i>Phil. Mag., 47, 277 (1924)</i> <i>Comment : S. He (5-7 MeV) -> Air, H, He, Mica</i>	1924-Ruth 1994
1925	Jacobsen, T. " <i>Nature, June 19, 858 (1925)</i> <i>Comment : S, He (5-7 MeV) -> Air</i>	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> <i>Comment : R. 5.3 MeV He -> Air, H2, H2O, CH4, N2, O2, CO, CO2, SO, SO2, CH3Br. Tracks In Cloud-Chamber.</i>	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> <i>Comment : S. 3 - 5.3 MeV He -> Mica Rel. To Air</i>	1927-Brig 0025
1930	Gerthsen, Chr. 'Uber Ionisation und Reichweite von H-Kanalstrahlen in Luft und Wasserstoff' <i>Ann. Physik, 5, 657-669 (1930)</i> <i>Comment : R. 20-64 keV H -> Air, H2</i>	1930-Gert 0053

Citations for Target : **Air**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1930	Harper, G. I. Salaman, I. 'Measurements on the Ranges of Alpha-Particles' <i>Proc. Roy. Soc., A127, 175-85 (1930)</i> <i>Comment : R. 5.3-7.7 MeV He -> H2, Ne, O2, Air.</i>	1930-Harp 0064
1932	Blackett, P. M. S. Lees, D. S. 'Further Investigations with a Wilson Chamber, the Range and Velocity of Recoil Atoms' <i>Proc. Roy. Soc., A134, 658-71 (1932)</i> <i>Comment : R. 100-800 keV He, 100-500 keV H -> Air</i>	1932-Blac 0016
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
1937	Parkinson, D. B. Herb, R. G. Bellamy, J. L. Hudson, C. M. 'The Range of Protons in Aluminum and Air' <i>Phys. Rev., 52, 75-79 (1937)</i> <i>Comment : R. 0.1-2.0 MeV H -> Air, Al</i>	1937-Park 0095
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

Citations for Target : **Air**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1943	SenGupta, R. L. 'Specific Ionization of Cosmic Ray Particles' <i>Proc. Natl. Inst. Sci. India, 9, 295-300 (1943)</i> <i>Comment : S. Rel. To Min. 0.2-20 GeV/c Mu, Pi -> Air</i>	1943-SenG 0079
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-Wytz 0138
1948	Gilbert, C. W. 'The Disintegration of Boron by Slow Neutrons' <i>Proc. Camb. Phil. Soc., 44, 447-52 (1948)</i> <i>Comment : R. 1.53-2.97 MeV He -> Air</i>	1948-Gilb 0054
1949	Appleyard, R. K. 'Stopping Power of Liquid Water for Alpha Particles' <i>Nature, 163, 526 (1949)</i> <i>Comment : S. He (4-5 MeV) -> H2O, Air. Relative measurments.</i>	1949-Appl 1579
1949	Boggild, J. K. Minnhagen, L. 'A Cloud-Chamber Study of the Disintegration of Lithium by Slow Neutrons' <i>Phys. Rev., 75, 782-85 (1949)</i> <i>Comment : R. 880-keV H -> Air</i>	1949-Bogg 0020
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., 229, 1223-25 (1949)</i> <i>Comment : R. 0.5-2.0 MeV He -> Air</i>	1949-Fara 0050
1949	VanDerMaas, G. J. Yntema, I. 'A Determination of the Mean Range of the Alpha Particles of 235U' <i>Physica, 15, 807-24 (1949)</i> <i>Comment : R. 4.4 MeV He Rel. To 4.2 MeV He -> Air</i>	1949-VanD 0081

Citations for Target : **Air**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1949	Wyly, L. D. Sailor, V. L. Ott, D. G. 'Protons from the Bombardment of He3 by Deuterons' <i>Phys. Rev.</i> , 76, 1532-33 (1949) <i>Comment</i> : R. 16-20.5 MeV H -> Air	1949-Wyly 0137
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	Carter, R. S. Whittemore, W. L. 'The Relative Specific Ionization of Fast Mesons' <i>Phys. Rev.</i> , 87, 494-99 (1952) <i>Comment</i> : S. 70-1500 MeV/c Mu -> Air	1952-Cart 0113
1952	Evans, G. E. Barnett, C. F. Stier, P. M. DeRito, V. L. 'Extrapolated Ionization Ranges of Ions Heavier Than Protons' <i>ORNL-1278, 17-21 (1952)</i> <i>Comment</i> : R. (50-300 keV) H, He, N, Ne, Ar -> He, N2, Ar, Air	1952-Evan 0057
1952	Lillie, A. B. 'The Disintegration of Oxygen and Nitrogen by 14.1 MeV Neutrons.' <i>Phys. Rev.</i> , 87, 716-22 (1952) <i>Comment</i> : R. 0.5-5 MeV 13C, 0.5-7 MeV 11B -> Air	1952-Lill 0078
1953	Burcham, M. 'The Range Energy Relations for Protons of Intermediate Energy in Air' <i>Phil. Mag.</i> , 44, 211-13 (1953) <i>Comment</i> : R. 1-12 MeV H -> Air	1953-Burc 0028
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 -> H2, Ar, Air, N2, CO, CH4, O2 . 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. A66, 660-61 (1953)</i> <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, N2, Ar, Air	1953-Evan 0048

Citations for Target : **Air**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1953	Reynolds, H. K. Dunbar, D. N. F. Wenzel, W. A. Whaling, W. 'The Stopping Cross Section of Gases for Protons, 30-600 keV' <i>Phys. Rev.</i> , 92 , 742-48 (1953) <i>Comment</i> : S. 30-600 keV H -> H ₂ , He, O ₂ , Air, N ₂ , Ne, Ar, Kr, Xe, Hydrocarbons.	1953-Reyn 0103
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
1955	Brolley, J. E. Ribe, F. L. 'Energy Loss by 8.86 MeV Deuterons and 4.43 MeV Protons.' <i>Phys. Rev.</i> , 98 , 1112-14 (1955) <i>Comment</i> : S. 4.43 MeV H -> H ₂ , Air, Kr. 8.86 MeV D -> H ₂ , He, N ₂ , O ₂ , Ne, Ar, Kr, Xe	1955-Brol 0026
1956	Allison, S. K. Littlejohn, C. S. 'Stopping Power of Various Gases for Lithium Ions of 100-450-keV Energy' <i>Phys. Rev.</i> , 104 , 959-61 (1956) <i>Comment</i> : S. 100-450 keV Li -> H ₂ , He, Ar, Air	1956-Alli 0002
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
1959	Vorob'Ev, Yu. A. 'Range of Nitrogen and Beryllium Ions in Air' <i>Zh. Eksp. Teor. Fiz.</i> , 35 , 1306-07 (1958). [Engl. Trans. <i>Sov. Phys. JETP</i> , 8 , 912 (1959)] <i>Comment</i> : R. 4.9-9.5 MeV N, 3.1, 3.7 MeV Be -> Air	1959-Voro 0554
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
1963	Park, J. T. Zimmermann, E. J. 'Stopping Cross Section of Some Hydrocarbon Gases for 40-250 keV Protons and Helium Ions' <i>Phys. Rev.</i> , 131 , 1611-18 (1963) <i>Comment</i> : S. 40-250 keV H -> Air, He, Various Hydrocarbons	1963-Park 0175

Citations for Target : **Air**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1965	LiuCheng, H. C. 'Range Energy Measurements in Gases' <i>Ph.D. Thesis. University of Southern California (1965)</i> <i>Comment : R. 2-8 MeV He -> N2, O2, Air, Ar</i>	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., 12, 1475-80 (1966)</i> <i>Comment : S. 0.3-5 MeV He -> N2, Air, Kr, CO2, CH4</i>	1966-Kerr 0793
1966	Mosner, J. Schmidt, G. Schintlmeister, J. 'Energie-Reichweite-Kurve Fur 7Li-Ionen in Luft' <i>Ann. Physik, 18, 268-270 (1966)</i> <i>Comment : R. 0.1-5.0 MeV Li -> Air</i>	1966-Mosn 0770
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, 40, 192-96 (1966)</i> <i>Comment : R, dR. 0.5 - 5.6 MeV He -> Air</i>	1966-Roto2 0251
1968	Cano, G. L. 'Total Ionization and Range of Low-Energy Recoil Particles in Pure and Binary Gases' <i>Phys. Rev., 169, 277-79 (1968)</i> <i>Comment : R. 103 keV 206Pb -> Ne, Ar, Xe, N2, Air, Hydrocarbons</i>	1968-Cano 0331
1968	Fastrup, B. Borup, A. Hvelplund, P. 'Stopping Cross Section in Atmospheric Air of 0.2 - 0.5 MeV Atoms with $6 \leq Z \leq 24$.' <i>Can. J. Phys., 46, 489-95 (1968)</i> <i>Comment : S. (100-1000 keV) C, N, O, Ne, N, Mg, P, S, Cl, Sc, Ca, Ti Al, Ar, K, Cr -> Air</i>	1968-Fast 0341
1968	Hvelplund, P. 'Prisopgave' <i>Aarhus University P. 1-105 (In Danish) (1968)</i> <i>Comment : S, dS. Many Ions (H-Hg) at 50-500 keV -> H, He, Ne, Ar, Kr, Xe, Air</i>	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> <i>Comment : S, dS. 1-3.5 MeV He -> He, Air, Ar, Kr, Xe</i>	1969-Rami 0388
1970	Swint, J. B. Prior, R. M. Ramirez, J. J. 'Energy Loss of Protons in Gases' <i>Nucl. Inst. Methods, 80, 134-40 (1970)</i> <i>Comment : S. 0.4-3.4 MeV H -> N2, Air, O2, Ne, Ar, Kr, CH4, CO2</i>	1970-Swin 0403

Citations for Target : **Air**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1971	Bonderup, E. Hvelplund, P. 'Stopping Power and Energy Stragglings of Swift Protons' <i>Phys. Rev. A</i> , 4, 562-69 (1971) <i>Comment</i> : S,dS. 100-500 keV H -> H2, He, Air, Ne, Ar, Kr	1971-Bond 0429
	Hvelplund, P. 'Energy Loss and Stragglings of 100-500 keV Atoms with Z1 ó 12 in Various Gases' <i>Kgl. Danske Videnskab. Selskab Mat. Fys. Medd.</i> , 38, No. 4, P. 1-25 (1971) <i>Comment</i> : S,dS. (100-500 keV) He, Li, Be, B, C, N, O, F, Ne, Na, Mg -> Air, He, Ne, H2, O2	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</i> , 4, 1868-72 (1971) <i>Comment</i> : R. 0.2-2.0 MeV H, He -> N2, O2, Ar, Air. Ranges Deduced From Ionization.	1971-Lang 0457
	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.</i> , 40, 1177-78 (1972) <i>Comment</i> : S. 3-5.3 MeV He -> Air, CO2, He	1972-Hueb 0666
1972	Langley, R. A. 'Range-Energy Relations for N, Na, and Ar Ions (0.3 - 2.0 MeV) in Ar, N2, O2, and Air.' <i>Phys. Rev. A</i> , 6, 1863-69 (1972) <i>Comment</i> : R. 0.3-2.0 MeV N, Na -> Air; 0.3-1.0 MeV Ar -> Air, N2, O2, Ar	1972-Lang 0451
	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</i> , 106, 241-43 (1973) <i>Comment</i> : dS. 5.2 MeV He -> He, Ne, Ar, Kr, CH4, CO2, N2, Air.	1973-Al 0472
1975	Al-Bedri, M. B. Harris, S. J. 'Energy Stragglings of Fission Fragments in Gases and Solids' <i>Nucl. Inst. Methods</i> , 124, 125-130 (1975) <i>Comment</i> : dS. Cf Fiss. Frag. -> He, N, CO2, Ar, Kr, Ne, Air, Al, Ag, Cu, Au, CH4, Tissue Eq. Gas	1975-Al 1273
	Betz, G. Isele, H. -J. Rossle, E. Hortig, G. 'Stopping Powers of He, Air, and Kr for 5 to 110 MeV Uranium Ions' <i>Nucl. Inst. Methods</i> , 123, 83-87 (1975) <i>Comment</i> : S. 5-110 MeV U -> He, Air, Kr	1975-Betz 0522

Citations for Target : **Air**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1975	Demidovich, N. N. Nakhutin, I. E. Shatunov, V. G. 'Certain Features of the Stopping Power of Gases for Fission Fragments' <i>Pis'Ma Zh. Eksp. Teor. Fiz. (Russia)</i> , 22, 526-28 (1975) [Eng. Trans. <i>JETP Letters</i> , 22,257-58 (1975)] <i>Comment</i> : S. Fission Fragments -> Air	1975-Demi 0877
1976	Geary, M. J. Haque, A. K. M. M. 'The Stopping Power and Stragglng for Alpha Particles in Tissue Equivalent Materials' <i>Nucl. Inst. Methods</i> , 137, 151-5 (1976) <i>Comment</i> : 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 Stragglng, Stopping Pwer and Energy Stragglng of Alpha Particles in Air' <i>Am. J. Phys.</i> , 46, 742-744 (1978) <i>Comment</i> : S,dS,R,dR. He (0.3-4.0 MeV) -> Air	1978-Ouse 1732
1980	Thwaites, D. I. 'Stopping Cross Sections of Various Gases for Alpha Partifcles in the Energy Region 0.2-5.5 MeV' <i>Phys. Med. Biol.</i> , 25 (5), 865-875 (1980) <i>Comment</i> : S. He (0.2-5.5 MeV) -> He, N, Ar, CH4, Air	1980-Thwa 1489
1981	Salamon, M. H. Ahlen, S. P. Tarle, G. Creggin, K. C. 'Measurement of Higher Order Corrections to Stopping Power for Relativistic Ne, Ar and Fe Beams' <i>Phys. Rev. A</i> , 23, 1, 73-76 (1981) <i>Comment</i> : R. Ne, Ar, Fe (600 MeV/amu) -> Al, Ar, Pb, Air, Kapton, CO2, Lexan	1981-Sala 1463
1988	Reier, M. 'An Experimental Measurement of the Energy Loss of Cf Fission Fragments in Air - A Comparison with Calculations' <i>Nucl. Inst. Methods</i> , B30, 503 (1987) <i>Comment</i> : S. Fission Fragments (Cf) -> Air	1988-Reie 1968