

Stopping for Ion : **He** , Target = **N**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1927	Gibson, G. E. Eyring, H. 'The Ionization and Stopping Power of Various Gases for Alpha Particles from Polonium' <i>Phys. Rev.</i> , 30, 553-561 (1927) <i>Comment</i> : S. He (2-7 MeV) -> H, He, N, O, Ne, Ar, CH ₂ . Early stopping paper- values based on differential of range/ionization measurements.	1927-Gibs 1577
1944	Gray, L. H. 'The Ionization Method of Measuring Neutron Energy' <i>Proc. Comb. Phil. Soc.</i> , 40, 72-102 (1944) <i>Comment</i> : 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	Hatfield, T. N. Lockenwitz, A. E. Colby, M. Y. 'The Relative Stopping Power of Gases for Alpha Particles from Polonium' <i>J. Franklin Inst.</i> , 247, 133-36 (1949) <i>Comment</i> : S. 5.3 MeV He -> H ₂ , N ₂ , O ₂ , N ₂ O, CO ₂ , H ₂ S, Hydrocarbons	1949-Hatf 0065
1962	Martin, F. W. Northcliffe, L. C. 'Energy Loss and Effective Charge of He, C, and Ar Ions' <i>Phys. Rev.</i> , 128, 1166-1174 (1962) <i>Comment</i> : S. He, C, Ar (4-400 MeV) -> H, He, N, Ar	1962-Mart 0148
1965	Boring, J. W. Strohl, G. E. Woods, F. R. 'Total Ionization in Nitrogen by Heavy Ions of Energies 25 to 50 keV' <i>Phys. Rev. A</i> , 140, 1065-69 (1965). <i>Comment</i> : S. 25-50 keV H, He, C, N, O, Ar -> N ₂	1965-Bori 0229
1966	Kerr, G. D. Hain, L. M. Underwood, N. Walthers, A. W. 'Molecular Stopping Cross Sections of Air, N ₂ , Kr, CO ₂ and CH ₄ 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. 'Bragg's Additivity Law of Stopping Power for 5 MeV Alpha Particles in O ₂ , N ₂ , CO ₂ , Co, NH ₃ and Hydrocarbon Gases' <i>NRC Canada Report No. NRC-9076 P. 1-6 (1966)</i> <i>Comment</i> : S. 5 MeV He -> N ₂ , O ₂ , CO, CO ₂ , NH ₃ , Hydrocarbons	1966-Roto 0438
1968	Ormrod, J. H. 'Low-Energy Electronic Stopping Cross Sections in Nitrogen and Argon' <i>Can. J. Phys.</i> , 46, 497-502 (1968) <i>Comment</i> : S. (5-200 keV) H, D, He, B, C, N, O, F, Ne -> N, Ar	1968-Ormr 0342

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1968	Rotondi, E. 'Energy Loss of Alpha Particles in Tissue' <i>Rad. Res.</i> , 33, 1-9 (1968) <i>Comment</i> : S. 0.L-5.3 MeV He -> N2, O2, CH4, CO2	1968-Roto 0437
1971	Bourland, P. D. Chu, W. K. Powers, D. 'Stopping Cross Section of Gases for Alpha Particles from 0.3 - 2.0 MeV' <i>Phys. Rev. B</i> , 3, 3625-35 (1971) <i>Comment</i> : S. 0.3-2.0 MeV He -> H2, O2, N2, NH3, N2O, CO, CO2, Hydrocarbons	1971-Bour 0439
1971	Bourland, P. D. Powers, D. 'Bragg-Rule Applicability to Stopping Cross Sections of Gases for Alpha Particles of Energy 0.3 - 2.0 MeV' <i>Phys. Rev. B</i> , 3, 3635-41 (1971) <i>Comment</i> : S. 0.3-2.0 MeV He -> H2, O2, N2, NH3, N2O, CO, CO2, Hydrocarbons	1971-Bour2 0440
1971	Hoyer, U. Waffler, H. 'Der Atomare Bremsquerschnitt von H2, D2, He, N2 und a Fur Alpha-Teilchen in Umladungsgebiet (0.5 < E < 2 MeV).' <i>Z. Naturforschg.</i> 26A, 592-95 (1971) <i>Comment</i> : S. 0.5-2.0 MeV He -> H2, D2, N2, Ar	1971-Hoye 0431
1975	Langley, R. A. 'Stopping Cross Sections for Helium and Hydrogen in H2, N2, O2 and H2S (0.3 - 2.5 MeV)' <i>Phys. Rev. B</i> , 12, 3575-83 (1975) <i>Comment</i> : S. 0.3-2.5 MeV H, He -> H2, N2, O2, H2S	1975-Lang 0785
1977	Besenbacher, F. 'Stopping Power and Stragglng for H and He Ions in Gas Targets' <i>Specialeopgave. Aarhus University</i> (1977) <i>Comment</i> : S. dS. 20-500 keV H, He -> H, He N, O, Ne, Ar, Kr, Xe, CO2	1977-Bese 0954
1978	Hanke, C. C. Laursen, J. 'Stopping Cross Sections for Alpha Particles from 1.0 to 8.5 MeV in H2, He, N2, O2, Ne, Kr, and Xe.' <i>Nucl. Inst. Methods</i> , 151, 253-260 (1978) <i>Comment</i> : S. 1.0 - 8.5 MeV He -> H, He, N, O, Ne, Kr, Xe.	1978-Hank 1082
1979	Besenbacher, F. Andersen, H. H. Hvelplund, P. Knudsen, H. 'Stopping Power of Swift Hydrogen and Helium Ions in Gases' <i>Kgl. Danske Videnskab. Selskab Mat. Fys. Medd.</i> 40, 1-39 (1979) <i>Comment</i> : S. 40 keV-1 MeV H And 100 keV-2.4 MeV He -> H2, He, N2, O2, CO2, Ne, Ar, Kr, Xe	1979-Bese 1160
1979	Dennis, J. A. Powers, D. 'The Dependence of Stopping Power on Physical and Chemical States' <i>Preprint</i> (1979) 8 <i>Comment</i> : S. H, He -> Gases (Review Of Current Data)	1979-Denn 1193

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1979	Whillock, M. J. Edwards, A. A. 'Determination of the Stopping Cross Sections of N, H, CH ₄ , C ₄ H ₁₀ and C ₃ H ₆ using Alpha Particles in the Range 1.3-4.2 MeV' <i>Phys. Med. Biol.</i> , 24, 518-524 (1979) <i>Comment</i> : S. He (1.3-4.2 MeV) -> N, H, CH ₄ , C ₄ H ₁₀ , C ₃ H ₆	1979-Whil 1540
1980	Nguyen, V. D. Chemtob, M. Chary, J. Posny, F. Parmentier, N. 'Recent Experimental Results on W-Values (Average Energy Loss per Ion Pair) for Heavy Particles' <i>Phys. Med. Biol.</i> , 25 (3), 509-518 (1980) <i>Comment</i> : S. H, He, C, N, O, Ar (25-375 keV) -> CH ₄ , CO ₂ , N ₂ (ionization chamber)	1980-Nguy 1487
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</i> : S. He (0.2-5.5 MeV) -> He, N, Ar, CH ₄ , Air	1980-Thwa 1489
1983	Baumgart, H. Berg, H. Huttel, E. Pfaff, E. Reiter, G. 'He ₄ Stopping Cross Sections in H ₂ , He, N ₂ , O ₂ , Ne, Ar, Kr, Xe, CH ₄ and CO ₂ ' <i>Nucl. Inst. Methods</i> , 215, 319-328 (1983) <i>Comment</i> : S. He (0.1-1.2 MeV) -> H ₂ , He, N ₂ , O ₂ , Ne, Ar, Kr, Xe, CH ₄ and CO ₂	1983-Baum3 1450
1987	Reiter, G. Baumgart, H. Kniest, N. Pfaff, E. Clausnitzer, G. 'Proton and Helium Stopping Cross-Sections in N ₂ , O ₂ , NO and N ₂ O' <i>Nucl. Inst. Methods</i> , B27, 287-292 (1987) <i>Comment</i> : S. H, He (50-3000 keV) -> N, O, N ₂ O, NO	1987-Reit 1439
1990	Reiter, G. Kniest, N. Pfaff, E. Clausnitzer, G. 'Proton and Helium Stopping Cross Sections in H, He, N, O, Ne, Ar, Kr, Xe, CH ₄ ' <i>Nucl. Inst. Methods</i> , B44, 399-411 (1990) <i>Comment</i> : S. H, He (0.7-3.0 MeV) -> H, He, N, O, Ne, Ar, Kr, Xe, CH ₄	1990-Reit 1933
2002	Geissel, H. Weick, H. Scheidenberger, C. Bimbot, R. Gardes, D. 'Experimental Studies of Heavy-Ion Slowing Down in Matter' <i>Nucl. Inst. Methods</i> , B195, 3-54 (2002) <i>Comment</i> : S. Summary of 18 Heavy Ion Stopping in 26 Targets	2002-Geis 3141