

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

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1925	Gurney, R. W. 'The Stopping-Power of Gases for Alpha-Particles of Different Velocities' <i>Proc. Roy. Soc., A107, 340-349 (1925)</i> <i>Comment : S. 5.3, 6.1 MeV He -> H2, He, O2, Ne, Ar, Kr, Xe Rel. To Air</i>	1925-Gurn 0061
1927	Gibson, G. E. Eyring, H. 'The Ionization and Stopping Power of Various Gases for Alpha Particles from Polonium' <i>Phys. Rev., 30, 553-561 (1927)</i> <i>Comment : S. He (2-7 MeV) -> H, He, N, O, Ne, Ar, CH2. Early stopping paper- values based on differential of range/ionization measurements.</i>	1927-Gibs 1577
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. 'Sur Les Courbes D'Ionisation Des Rayons Alpha Du Polonium Dans Les Gaz Rares' <i>J. Phys. Radium, 5, 575-77 (1934)</i> <i>Comment : S. 3-7 MeV He -> He, Ne, Ar, Kr, Xe. All Rel. To Air</i>	1934-Naid 0093
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
1960	Schambra, P. E. Rauth, A. M. Northcliffe, L. C. 'Energy Loss Measurements for Heavy Ions in Mylar and Polyethylene' <i>Phys. Rev., 120, 1758 (1960)</i> <i>Comment : S. He, B, Be, C, N, O, F, Ne (10 MeV/amu) -> Mylar, Polyethylene</i>	1960-Scha2 1931
1965	Schuler, R. H. 'Radiolysis of Benzene by Heavy Ions' <i>Trans. Faraday Soc., 61, 100-109 (1965)</i> <i>Comment : S. 100 keV H, 500 keV He -> Benzene</i>	1965-Schu 1161
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
1971	Chu, W. K. Powers, D. 'Energy Loss of Alpha Particles in Noble Gases from 0.3 - 2.0 MeV' <i>Phys. Rev. B, 4, 10-15 (1971)</i> <i>Comment : S. 0.3-2.0 MeV He -> He, Ne, Ar, Kr, Xe</i>	1971-Chu 0675

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1971	Dolle, F. Schultz, J. Chevallier, P. Sutter, G. 'Etude De Ralentissement Des Particules Alpha De 6.620 MeV Dans Des Absorbants Gazeux (Ne, Ar, Kr) Dans Les Domaine Des Faibles Pertes D'Energie.' <i>J. Physique, 32, 397-403 (1971)</i> <i>Comment : S, dS. 6.62 MeV He -> Ne, Kr, Ar</i>	1971-Doll 0680
1971	Hvelplund, P. 'Energy Loss and Stragglng of 100-500 keV Atoms with 2 δ Z1 δ 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
1973	Wenger, E. Gardner, R. P. Verghese, K. 'Molecular Stopping Cross Sections of Alpha Particles in Butane, Propane, Ethane, Neon, Helium, and Hydrogen' <i>Health Phys., 25, 67-71 (1973)</i> <i>Comment : S. (2.5-6 MeV) He -> H2, Ne, He, C2H6, C3H8, C4H10</i>	1973-Weng 0828
1976	Helmbold, M. E. 'Energieverlust und Lichtausbeute Bei Axialem Channeling von Alpha-Teilchen in Anthrazen' <i>Z. Physik A, 278, 9-14 (1976)</i> <i>Comment : S, dS. 6.05, 8.78 MeV He -> Anthracene</i>	1976-Helm 0893
1976	Whillock, M. J. Edwards, A. A. 'Measurements of the Stopping Cross Sections of Ethylene and Polyethylene Using Alpha Particles in the Energy Range 1.5-4.2 MeV' <i>EuroAtom Rpt. 5629, 115-120 (1976)</i> <i>Comment : S. He (1.5-4.2 MeV) -> Ethylene, Polyethylene</i>	1976-Whil 1586
1977	Besenbacher, F. 'Stopping Power and Stragglng for H and He Ions in Gas Targets' <i>Specialeopgave. Aarhus University (1977)</i> <i>Comment : S. dS. 20-500 keV H, He -> H, He N, O, Ne, Ar, Kr, Xe, CO2</i>	1977-Bese 0954
1978	Chau, E. K. L. Powers, D. 'Measurement of Molecular Stopping Cross Sections of Aldehydes and Ketones and Calculation of the Atomic Stopping Cross Section of Oxygen in Ring-Structure C-H-O Compounds' <i>J. Appl. Phys., 49, 2611-15 (1978)</i> <i>Comment : S. 0.3 - 2.0 MeV He -> Butyraldehyde, Acetone, 2-Butanone, 3-Pentanone</i>	1978-Chau 1084
1978	Dopheide, D. 'Calculated Measured Scintillation Response of Alpha-Particles in Planar Channeling- and Blocking-Experiments with Anthracene Single Crystals' <i>Z. Physik A, 288, 365-368 (1978)</i> <i>Comment : S, dS. 6-8 MeV 4He -> Anthracene</i>	1978-Doph 1248

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1978	Hanke, C. C. Laursen, J. 'Stopping Cross Sections for Alpha Particles from 1.0 to 8.5 MeV in H ₂ , He, N ₂ , O ₂ , Ne, Kr, and Xe.' <i>Nucl. Inst. Methods, 151, 253-260 (1978)</i> <i>Comment : S. 1.0 - 8.5 MeV He -> H, He, N, O, Ne, Kr, Xe.</i>	1978-Hank 1082
1978	Whillock, M. J. Edwards, A. A. 'Comparison of the Stopping Cross Sections of Ethylene and Polyethylene Using Alpha Particles in the Energy Range 1.5-4.2 MeV' <i>Phys. Med. Biol., 23, 416-425 (1978)</i> <i>Comment : S. He (1.5-4.2 MeV) -> Ethylene, Polyethylene. Gas/solid stopping effects.</i>	1978-Whil 1538
1979	Aframian, A. 'Dependence of the Stopping Power of Charged Particles in the Physical State of Organic Dielectric Compounds' <i>Appl. Phys., 19, 353-358 (1979)</i> <i>Comment : S. He, Ar, Kr (1-40 MeV/amu) -> Cell-Nitrate, Polyethylene, Polystyrene, Mylar, Melinex</i>	1979-Afra 1252
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. 40, 1-39 (1979)</i> <i>Comment : S. 40 keV-1 MeV H And 100 keV-2.4 MeV He -> H₂, He, N₂, O₂, CO₂, Ne, Ar, Kr, Xe</i>	1979-Bese 1160
1979	Dennis, J. A. Powers, D. 'The Dependence of Stopping Power on Physical and Chemical States' <i>Preprint (1979) 8</i> <i>Comment : S. H, He -> Gases (Review Of Current Data)</i>	1979-Denn 1193
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., 24, 518-524 (1979)</i> <i>Comment : S. He (1.3-4.2 MeV) -> N, H, CH₄, C₄H₁₀, C₃H₆</i>	1979-Whil 1540
1980	Bednyakov, A. A. Bulgakov, Y. V. Nikolaev, V. S. Chernov, V. L. 'Energy Losses and their Stragglings for H and He Ions with Energies of Several Hundreds of keV on Passage through Metal and Polystyrene Films' <i>Sov. Phys., JETP 51, 954 (1980)</i> <i>Comment : S, dS. H, He (120-1300 keV) -> Al, Cu, Ag, Au, polystyrene</i>	1980-Bedn 1615
1981	Bednyakov, A. A. Bulgakov, Y. V. Nikolaev, V. S. Chernov, V. L. 'Energy Stragglings of Hydrogen and Helium Ions in Al, C, and Polystyrene at Energies of Tens and Hundreds keV/amu' <i>Phys. Stat. Sol. A, 68, 187 (1981)</i> <i>Comment : S, dS. H, He (70-1200 keV) -> Al, C, Polystyrene</i>	1981-Bedn 1958

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1981	Fukuda, A. 'Stopping Powers in Rare Gases for 40-200 keV Rare-Gas Ions' <i>J. Phys. B, Atom. and Molec. Phys.,14, 4533-4544 (1981)</i> <i>Comment : S. He, Ne, Ar, Kr (40-200 keV) -> He, Ne, Ar, Kr, Xe (Note: stopping for ions of zero deflection)</i>	1981-Fuku 1411
1983	Baumgart, H. Berg, H. Huttel, E. Pfaff, E. Reiter, G. 'He4 Stopping Cross Sections in H2, He, N2, O2, Ne, Ar, Kr, Xe, CH4 and CO2' <i>Nucl. Inst. Methods, 215, 319-328 (1983)</i> <i>Comment : S. He (0.1-1.2 MeV) -> H2, He, N2, O2, Ne, Ar, Kr, Xe, CH4 and CO2</i>	1983-Baum3 1450
1984	Powers, D. Olson, H. G. Gowda, R. 'Molecular Stopping Powers and Effect of Chemical Bonding in Gaseous Amine Compounds' <i>J. Appl. Phys., 55 (5), 1274-1277 (1984)</i> <i>Comment : S. He (0.3-2.0 MeV) -> Amine compounds (gases)</i>	1984-Powe 1412
1990	Reiter, G. Kniest, N. Pfaff, E. Clausnitzer, G. 'Proton and Helium Stopping Cross Sections in H, He, N, O, Ne, Ar, Kr, Xe, CH4' <i>Nucl. Inst. Methods, B44, 399-411 (1990)</i> <i>Comment : S. H, He (0.7-3.0 MeV) -> H, He, N, O, Ne, Ar, Kr, Xe, CH4</i>	1990-Reit 1933
1991	Haque, A. K. M. M. Nikjoo, H. 'Stopping Power for Alpha Particles in Organic Liquids and Vapours' <i>Nucl. Inst. Methods, B53, 15-23 (1991)</i> <i>Comment : S. He (0.5-5.5 MeV) -> H2O, methanol, ethenal, other organic compounds. Stopping in liquid andvVapor states.</i>	1991-Haqu 2186
1993	Novkovic, D. Subotic, K. Milosevic, Z. Manic, S. Stojanovic, M. 'Alpha Particle Energy Stragglng Measurements in Nobel Gases' <i>J. Moscow Phys. Soc. (UK), 3, 215-220 (1993)</i> <i>Comment : dS. He(8.8 MeV) -> He, Ne, Ar, Kr, Xe</i>	1993-Novk 2077
1994	Wallace, W. E. Rathman, J. B. Composto, R. J. 'The Stopping Power of 1-3 MeV H and He in Polystyrene' <i>Nucl. Inst. Methods, B84, 1-4 (1994)</i> <i>Comment : S. H, He (1-3 MeV) -> Polystyrene</i>	1994-Wall2 2050
1995	Abel, F. Quillet, V. Schott, M. 'Degradation of Polystyrene Thin Films under D, He and C Irradiation, Studied by Ion Beam Analysis: Effects of Energy Loss, Sample Thickness and Isotopic Content' <i>Nucl. Inst. Methods, B105, 86-90 (1995)</i> <i>Comment : S. H, D, He, C (150-2500 keV) -> Polystyrene (</i>	1995-Abel 2035

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1995	LeBlanc, L. Ross, G. G. Wallace, W. E. 'Measured Stopping Powers of Hydrogen and Helium in Polystyrene near their Maximum Values' <i>Nucl. Inst. Methods, 95, 457-462 (1995)</i> <i>Comment : S. H, He (.04 - 300 keV/amu) -> Polystyrene</i>	1995-LeBl 1849
1999	Porter, L. E. 'Values of modified Bethe-Bloch Stopping Power Parameters for Polysulfone extracted from Stopping Power Measurements with Light Projectile' <i>Nucl. Inst. Methods, B159, 195-200 (1999)</i> <i>Comment : S. H, He (1 - 3.2 MeV) -> Polysulfone</i>	1999-Port 2355
2007	Hsu, J.Y. Liang, J.H. Yu, Y.C. Chen, K.M. 'Stopping forces of 3He and 6Li ions with MeV energies in polycarbonate, polyethylene terephthalate, and polypropylene foils' <i>Nucl. Instrum. Methods B 256, 153 (2007)</i> <i>Comment : S. 3He (1.1-4.5 MeV), 6Li (1.2-4.8 MeV) -> polycarbonate, polyethylene terephthalate, polypropylene</i>	2007-Hsu 3165