

Stopping for Ion : **H** , Target = **Ar**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Num
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
1953	Phillips, J. A. 'The Energy Loss of Low Energy Protons in Some Gases' <i>Phys. Rev., 90, 532-37 (1953)</i> <i>Comment : S. 10-80 keV H -> H2, He, N2, O2, Ar, Kr, H2O, CO2, CCl4</i>	1953-Phil 0099
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., 92, 742-48 (1953)</i> <i>Comment : S. 30-600 keV H -> H2, He, O2, Air, N2, Ne, Ar, Kr, Xe, Hydrocarbons.</i>	1953-Reyn 0103
1953	Weyl, P. K. 'The Energy Loss of Hydrogen, Helium, Nitrogen and Neon Ions in Gases' <i>Phys. Rev., 91, 289-96 (1953)</i> <i>Comment : S. 150-450 keV H, D, He, N, Ne -> H2, He, Air, Ar</i>	1953-Weyl 0131
1954	Chilton, A. B. Cooper, J. N. Harris, J. C. 'The Stopping Power of Various Elements for Protons of Energies from 400 to 1050 keV' <i>Phys. Rev., 93, 413-18 (1954)</i> <i>Comment : S. 400-1050 keV H -> N2, Ne, Ar, Kr, Xe, Ni, Cu</i>	1954-Chil 0032
1955	Brolley, J. E. Ribe, F. L. 'Energy Loss by 8.86 MeV Deuterons and 4.43 MeV Protons.' <i>Phys. Rev., 98, 1112-14 (1955)</i> <i>Comment : S. 4.43 MeV H -> H2, Air, Kr. 8.86 MeV D -> H2, He, N2, O2, Ne, Ar, Kr, Xe</i>	1955-Brol 0026
1963	Wolke, R. L. Bishop, W. N. Eichler, E. Johnson, N. R. O'Kelley, G. D. 'Ranges and Stopping Cross Sections of Low-Energy Tritons' <i>Phys. Rev., 129, 2591-96 (1963)</i> <i>Comment : R, S. 0.2-2.73 MeV T -> N2, Al, Ar, Ni, Kr, Xe.</i>	1963-Wolk 0142
1966	Mason, D. L. Prior, R. M. Quinton, A. R. 'The Energy Straggling of 1 MeV Protons in Gases' <i>Nucl. Inst. Methods, 45, 41-44 (1966)</i> <i>Comment : dS. 1 MeV H -> H, He, N, O, Ar, Xe</i>	1966-Maso 0282
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

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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
1969	Andreev, V. N. Nedopekin, V. G. Rogov, V. I. 'Stopping Power of Argon for Ions with Z Ranging Between 3 and 13' <i>Zh. Eksp. Teor. Fiz.</i> , 56 , 1504-07 (1969). [<i>Engl. Trans. Sov. Phys. JETP</i> , 29 , 807-08 (1969)] <i>Comment</i> : S. (10-30 MeV) Li, C, N, Be, B, Ne, Ar -> Ar	1969-Andr2 0409
1970	Swint, J. B. Prior, R. M. Ramirez, J. J. 'Energy Loss of Protons in Gases' <i>Nucl. Inst. Methods</i> , 80 , 134-40 (1970) <i>Comment</i> : S. 0.4-3.4 MeV H -> N ₂ , Air, O ₂ , Ne, Ar, Kr, CH ₄ , CO ₂	1970-Swin 0403
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 -> H ₂ , He, Air, Ne, Ar, Kr	1971-Bond 0429
1973	Jeanne, D. Lazeyras, P. Lehraus, I. Mathewson, R. Tejessy, W. 'High Energy Particle Identification using Multilayer Proportional Counters' <i>Nucl. Inst. Methods</i> , 111 , 287-300 (1973) <i>Comment</i> : S. 1.5-16 GeV/c H, Pi, K -> Ar + 5% CH ₄	1973-Jean 0625
1974	Adlerholz, M. Lazeyras, P. Lehraus, I. Mathewson, R. Tejessy, W. 'High-Resolution Ionization Measurements in the Region of Relativistic Rise' <i>Nucl. Inst. Methods</i> , 118 , 419-30 (1974) <i>Comment</i> : S, dS. 9 GeV/c H, Pi -> Ar + 5% CH ₄ , 60% He + 30% Ar + 10% CH ₄ , Kr + 5% CH ₄	1974-Adle 0626
1975	Duder, J. C. Clare, J. F. Naylor, N. 'Stopping Power of Havar for 0.8-3.9 MeV Deuterons and 2.9-6.0 MeV Protons.' <i>Nucl. Inst. Methods</i> , 123 , 89-91 (1975) <i>Comment</i> : S. 0.8-3.9 MeV D, 2.9-6.0 MeV H -> Havar (Mainly Co).	1975-Dude 0523
1976	Allison, W. W. M. Brooks, C. B. Bunch, J. N. Flemming, R. W. Yamamoto, R. K. 'The Ionisation Loss of Relativistic Charged Particles in Thin Gas Samples and Its Use for Particle Identification. II. Experimental Results.' <i>Nucl. Inst. Methods</i> , 133 , 325-34 (1976) <i>Comment</i> : S, dS. 25-150 GeV/c H, Pi -> Ar + 20% CO ₂	1976-Alli 0868
1977	Besenbacher, F. 'Stopping Power and Stragglings 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, CO ₂	1977-Bese 0954

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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	Foroughi, F. Vuilleumier, B. Bovet, E. 'Stopping Power and Multiple Scattering of Havar and Kapton for Low Energy Protons' <i>Nucl. Inst. Methods, 159, 513-516 (1979)</i> <i>Comment : S. H (1.2-4.4 MeV) -> Havar, Kapton</i>	1979-Foro 1646
1982	Ishiwari, R. Shiomi, N. Sakamoto, N. 'Geometric Effect on the Measurement of Stopping Power: Angular Dependent Energy Loss of 7 MeV Protons in Metallic and Organic Thin Foils' <i>Phys. Rev. A, 25, 2524 (1982)</i> <i>Comment : S. H (7 MeV) -> Be, Al, Ag, Mylar, Cellophane (Angular effects)</i>	1982-Ishi2 1676
1983	Baumgart, H. Arnold, W. Berg, H. Huttel, E. Clausnitzer, G. 'Proton Stopping Powers in Various Gases' <i>Nucl. Inst. Methods, 204, 597 (1983)</i> <i>Comment : H (60-800 keV) -> H, He, N, O, Ne, Ar, Kr, Xe</i>	1983-Baum 1614
1985	Rauhala, E. Raisanen, J. 'Energy Loss of 450-2400 keV Protons in Havar, Kapton and Aluminized Mylar Foils' <i>Nucl. Inst. Methods, B12, 321 (1985)</i> <i>Comment : S. H (450-2400 keV) -> Havar, Kapton, Mylar</i>	1985-Rauh 1741
1988	Rauhala, E. Raisanen, J. 'Stopping Powers of 0.5-8.3 MeV Protons in Havar, Nickel, Kapton and Mylar' <i>Nucl. Inst. Methods, B35, 130 (1988)</i> <i>Comment : S. H (0.5-8.3 MeV) -> Ni, Havar, Kapton, Mylar</i>	1988-Rauh 1742
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

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1993	Auth, C. Winter, H. 'Energy Loss of 100 keV Protons in Single Collisions with Argon Atoms' <i>Phys. Letters A, 176, 109-112 (1993)</i> <i>Comment : S, dS. H (100 keV) -> Ar</i>	1993-Auth 1872
1994	Auth, C. Winter, H. 'Impact Parameter Dependence of the Energy Loss of Fast Protons in Single Collisions with Noble Gas Atoms' <i>Nucl. Inst. Methods, B93, 123-131 (1994)</i> <i>Comment : S. H (50-250 keV) -> He, Ne Ar</i>	1994-Auth 1854
1994	Porter, L.E. Rauhala, E. Raisanen, J. 'Effects of Sample Preparation on the Stopping Powers of Havar for Protons and Alpha Particles' <i>Phys. Rev. B, 49, 11543-11549 (1994)</i> <i>Comment : S. H, He (0.5-1.8 MeV) -> Havar</i>	1994-Port4 2043
1995	Shiomi Tsuda, N. Sakamoto, N. Ogawa, H. 'Stopping Powers of Mylar for Protons from 4 - 11.5 MeV' <i>Nucl. Inst. Methods, B103, 255-260 (1995)</i> <i>Comment : S. H (4.0-11.5 MeV) -> Mylar</i>	1995-Shio 2066
1996	Shiomi-Tsuda, N. Sakamoto, N. Ogawa, H. Tanaka, M. Goto, T. 'Stopping Powers of Havar for Protons from 4.0 to 13.0 MeV' <i>Nucl. Inst. Methods, B117,343-346 (1996)</i> <i>Comment : S. H (4.0-13.0 MeV) -> Havar</i>	1996-Shio2 2354
1996	Tsuda, S. Sakamoto, N. Ogawa, N. Tanaka, M. Goto, T. 'Stopping Powers of Havar for Protons from 4.0 - 13.0 MeV' <i>Nucl. Inst. Methods, B117, 343-346 (1996)</i> <i>Comment : S. H (4.0-13.0 MeV) -> Havar</i>	1996-Tsud 2027
1997	Shiomi-Tsuda, N. Sakamoto, N. Ogawa, H. Tanaka, M. Saito, M. 'Stopping Powers of Mylar for Protons from 0.40 to 3.25 MeV' <i>Nucl. Inst. Methods, B 129, 1-4 (1997)</i> <i>Comment : S. H (0.4-3.25 MeV) -> Mylar</i>	1997-Tsud 2365
1998	Shiomi-Tsuda, N. Sakamoto, N. Ogawa, H. Saitoh, M. Kitoba, U. 'Stopping Powers of Havar for Protons from 0.45 to 3.0 MeV' <i>Nucl. Inst. Methods, B 135, 118-123 (1998)</i> <i>Comment : S. H (.45 - 3 MeV) -> Havar</i>	1998-Shia 2358
2002	Trzaska, W. H. Lyapin, V. Alanko, T. Mutterer, M. Raisanen, J. 'New Approach to Energy Loss Measurements' <i>Nucl. Inst. Methods, B195, 147-165 (2002)</i> <i>Comment : S. Ar, Si, O, He, H -> Au, Ni, C, Havar</i>	2002-Trza 3140

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2004	Damache, S. Ouichaoui, S. Belhout, A. Medouni, A. Toumert, I 'Stopping of 236 keV – 3.019 MeV protons in mylar and polypropylene films' <i>Nucl. Instrum. Methods B225, 449 (2004)</i> <i>Comment : S. H (236-3019 keV) ->Mylar, Polypropylene</i>	2004-Dama 3205
2004	Porter, L. E. Trzaska, W. H. Raisanen, J. Lyapin, V. 'Stopping powers of havar for 0.63–5.9 MeV protons and 2.6–24 MeV alpha particles' <i>J. Phys.: Condens. Matter 16, 7663 (2004)</i> <i>Comment : S. H (0.63-5.9 MeV), He (2.6-24 MeV)->Havar</i>	2004-Port 3232
2005	Ammi, H. Zemih, R. Mammer, S. Allab, M. 'Mean excitation energies extracted from stopping power measurements of protons in polymers by using the modified Bethe–Bloch formula' <i>Nucl.Instrum.Methods B230, 68 (2005)</i> <i>Comment : S. H (1-3.5 MeV) ->LR115, Mylar, Polycarbonate, Polyprop.</i>	2005-Ammi 3201
2010	Damache, S. Moussa, D. Ouichaoui, S. 'Stopping of ~0.2-3.4MeV/amu /sup 1/H/sup +/- and /sup 4/He/sup +/- ions in polyvinyl formal' <i>Nucl. Instrum. Methods B 268, 1759 (2010)</i> <i>Comment : S. H, He (0.2-3.4 MeV/u) -> polyvinyl formal (formvar)</i>	2010-Dama 3162