Stopping for Ion : H , Target = He

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1942	Crenshaw, C. M. **'The Loss of Energy of Hydrogen Ions Traversing Various Gases'** ***Phys. Rev., 62, 54-64 (1942)*** *Comment : S. 60-340 keV H, D -> H2, D2, He, H2O Rel. To Air*	**1942-Cren** 0040
1944	Gray, L. H. **'The Ionization Method of Measuring Neutron Energy'** ***Proc. Comb. Phil. Soc., 40, 72-102 (1944)*** *Comment : 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
1953	Phillips, J. A. **'The Energy Loss of Low Energy Protons in Some Gases'** ***Phys. Rev., 90, 532-37 (1953)*** *Comment : S. 10-80 keV H -> H2, He, N2, O2, Ar, Kr, H2O, CO2, CCl4*	**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'** ***Phys. Rev., 92, 742-48 (1953)*** *Comment : S. 30-600 keV H -> H2, He, O2, Air, N2, Ne, Ar, Kr, Xe, Hydrocarbons.*	**1953-Reyn** 0103
1953	Weyl, P. K. **'The Energy Loss of Hydrogen, Helium, Nitrogen and Neon Ions in Gases'** ***Phys. Rev., 91, 289-96 (1953)*** *Comment : S. 150-450 keV H, D, He, N, Ne -> H2, He, Air, Ar*	**1953-Weyl** 0131
1963	Park, J. T. Zimmermann, E. J. **'Stopping Cross Section of Some Hydrocarbon Gases for 40-250 keV Protons and Helium Ions'** ***Phys. Rev., 131, 1611-18 (1963)*** *Comment : S. 40-250 keV H -> Air, He, Various Hydrocarbons*	**1963-Park** 0175
1966	Mason, D. L. Prior, R. M. Quinton, A. R. **'The Energy Straggling of 1 MeV Protons in Gases'** ***Nucl. Inst. Methods, 45, 41-44 (1966)*** *Comment : dS. 1 MeV H -> H, He, N, O, Ar, Xe*	**1966-Maso** 0282
1968	Hvelplund, P. **'Prisopgave'** ***Aarhus University P. 1-105 (In Danish) (1968)*** *Comment : S, dS. Many Ions (H-Hg) at 50-500 keV -> H, He, Ne, Ar, Kr, Xe, Air*	**1968-Hvel** 0406
1970	Walsh, P. J. Underwood, N. **'Energy Loss of Heavy Charged Particles'** ***Health Phys., 18, 561-565 (1970)*** *Comment : S. H (0.3-8 MeV) -> H, He, Li, C. Theory, compared to experiments.*	**1970-Wals** 1950

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Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1971	Bonderup, E. Hvelplund, P. **'Stopping Power and Energy Straggling of Swift Protons'** ***Phys. Rev. A, 4, 562-69 (1971)*** *Comment : S,dS. 100-500 keV H -> H2, He, Air, Ne, Ar, Kr*	**1971-Bond** 0429
1979	Besenbacher, F. Andersen, H. H. Hvelplund, P. Knudsen, H. **'Stopping Power of Swift Hydrogen and Helium Ions in Gases'** ***Kgl. Danske Videnskab. Selskab Mat. Fys. Medd. 40, 1-39 (1979)*** *Comment : 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'** ***Preprint (1979) 8*** *Comment : S. H, He -> Gases (Review Of Current Data)*	**1979-Denn** 1193
1983	Baumgart, H. Arnold, W. Berg, H. Huttel, E. Clausnitzer, G. **'Proton Stopping Powers in Various Gases'** ***Nucl. Inst. Methods, 204, 597 (1983)*** *Comment : H (60-800 keV) -> H, He, N, O, Ne, Ar, Kr, Xe*	**1983-Baum** 1614
1984	Xu, Y. J. Khandelwal, G. S. Wilson, J. W. **'Intermediate Energy Proton Stopping Power for Hydrogen Molecules and Monoatomic Helium Gas'** ***Phys. Letters, 100A, 3, 137-140 (1984)*** *Comment : S. H (0.1-1.0 MeV) -> H2, He*	**1984-Xu 2** 1464
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'** ***Nucl. Inst. Methods, B44, 399-411 (1990)*** *Comment : S. H, He (0.7-3.0 MeV) -> H, He, N, O, Ne, Ar, Kr, Xe, CH4*	**1990-Reit** 1933
1991	Golser, R. Semrad, D. **'Observation of a Striking Departure from Velocity Proportionality in Low Energy Electronic Stopping'** ***Phys. Rev. Letters, 66, 1831 (1991)*** *Comment : S. H (3 - 20 keV) He*	**1991-Gols** 1654
1992	Golser, R. Semrad. D. **'Energy Loss of Hydrogen and Helium Ions in Hydrogen and Helium Gas: Looking for Exceptions from Velocity Proportionality'** ***Nucl. Inst. Methods, B69, 18-21 (1992)*** *Comment : S. H, D, He (2-20 keV/amu) -> H, He*	**1992-Gols3** 1893
1993	Schiefermuller, A. Galser, R. Stohl, R. Semrad, D. **'Energy Loss of Hydrogen Projectiles in Gases'** ***Phys. Rev. A, 48, 4467-4475 (1993)*** *Comment : S. H (3-20 keV/amu) -> H2, D, He, Ne*	**1993-Schi** 2076

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1994	Auth, C. Winter, H. **'Impact Parameter Dependence of the Energy Loss of Fast Protons in Single Collisions with Noble Gas Atoms'** ***Nucl. Inst. Methods, B93, 123-131 (1994)*** *Comment : S. H (50-250 keV) -> He, Ne Ar*	**1994-Auth** 1854
1994	OBELIX Collaboration **'Recent Results from OBELIX in Atomic Physics'** ***Yaderna Fiz. (Russia), 57, 1816-1828 (1994)*** *Comment : S. H (0.5keV-3.3 MeV) -> H, He (gas) Pressure effects on stopping.*	**1994-OBEL** 2041
1994	Schiwietz, G. Grande, P. L. Auth, C. Winter, H. Salin, A. **'Angular Dependence of Energy Loss in Prton-Helium Collisions'** ***Phys. Rev. Letters, 72, 2159-2162 (1994)*** *Comment : S. H (50-250 keV) -> He (single collision scattering)*	**1994-Schi** 1860
1995	Agnello, M. Belli, G. Bertin, A. Botta, E. Zoccoli, A. **'Anti-Proton Slowing Down in H-2 and He and Evidence of Nuclear Stopping Power'** ***Phys. Rev. Letters, 74, 371-374 (1995)*** *Comment : S, Sn. H- (0.5-1.1 MeV) -> H, He*	**1995-Agne** 1744
1996	Golser, R. Semrad, D. Aumayr, F. **'Electronic Stopping in a He-H2 Mixture Substantially Exceeds Bragg's Rule Value'** ***Phys. Rev. Lett., 76, 3104-3107 (1996)*** *Comment : S. D (4 keV/amu) -> He/H mixtures.*	**1996-Gols** 2160
2000	Formicola, A. Aliotta, M. Gyurky, G. Raiola, F. Bonetti, R. **'Energy Loss of Deuterons in He-3 Gas; A Threshold Effect'** ***Eur. Phys. J., A8, 443-446 (2000)*** *Comment : S. D (15 - 100 keV) -> He3*	**2000-Form** 2370
2001	Raiola, F. Gyurky, G. Aliotta, M. Formicola, A. Bonetti, R. **'Stopping Power of Low Energy Deuterons in He-3 Gas'** ***Eur. Phys. J, A10, 487-491 (2001)*** *Comment : S. D (10 -100 keV) -> He3 gas*	**2001-Raio** 2368