

Stopping for Ion : He , Target = C

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1961	Porat, D. I. Ramavataram, K. 'Differential Energy Loss and Ranges of Ne, N, and He Ions' <i>Proc. Phys. Soc., 78, 1135-43 (1961)</i> Comment : S. (0.4 - 6.2 MeV) D, He, Ne, N -> C, Al, Ni, Ag, Au	1961-Pora2 0250
1962	VanWijngaarden, A. Duckworth, H. E. 'Energy Loss in Condensed Matter of 1H, and 4He in the Energy Range 4 < E < 30 keV' <i>Can. J. Phys., 40, 1749-64 (1962)</i> Comment : S. 4-30 keV H, He -> C, Al2O3	1962-VanW 0356
1963	Ormrod, J. H. Duckworth, H. E. 'Stopping Cross Sections in Carbon for Low-Energy Atoms with Z < 12' <i>Can. J. Phys., 41, 1424-42 (1963)</i> Comment : S. (10-130 keV) H, He, Li, Be, B, C, N, O, F, Ne, Na, Mg -> C	1963-Ormr 0166
1965	Moorhead, R. D. 'Stopping Cross Sections of Low Atomic Number Materials for He+ 65-180 keV' <i>J. Appl. Phys., 36, 391-96 (1965)</i> Comment : S. 65 - 180 keV H, He -> C, He -> Al, Cr	1965-Moor 0217
1965	Pivovar, L. I. Nikolaichuk, L. I. Rashkovan, V. M. 'Passage of Lithium Ions through Condensed Targets' <i>Zh. Eksp. Teor. Fiz., 47, 1221-27 (1964) [Engl. Trans. Sov. Phys. Jetp, 20, 225-29 (1965)]</i> Comment : S. 20-145 keV Li -> C	1965-Pivo 0194
1965	Sautter, C. A. Zimmermann, E. J. 'Stopping Cross Sections of Carbon and Hydrocarbon Solids for Low-Energy Protons and Helium Ions' <i>Phys. Rev. A, 140, 490-98 (1965).</i> Comment : S. 30-350 keV H, He -> C, Plastics	1965-Saut 0232
1967	Vasilievsky, I. M. Prokoshkin, Yu. D. 'Ionization Energy Loss of Protons, Deuterons and Alpha-Particles' <i>Yaderna Fiz. (Russia), 4, 549-55 (1966)[Engl. Trans. Sov. Phys. Nucl. Phys., 4, 390-94 (1967)]</i> Comment : S. (267-650 MeV) H, D, He -> Cu, H, C, Al, Sn, Pb	1967-Vasi 0313
1969	Chu, W. K. Powers, D. 'Alpha-Particle Stopping Cross Sections in Solids from 400 keV to 2 MeV' <i>Phys. Rev., 187, 478-90 (1969)</i> Comment : S. 0.4-2.0 MeV He -> Be, C, Mg, Al, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Ge, Pd, Ag, In, Sn	1969-Chu 0382
1970	Bernstein, W. Cole, A. J. Wax, R. L. 'Penetration of 1-20 keV Ions through Thin Carbon Foils' <i>Nucl. Inst. Methods, 90, 325-28 (1970)</i> Comment : S. 1-20 keV H, O, He, Li, N, Ne, K -> C	1970-Bern 0658

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1970	Hogberg, G. Norden, H. Berry, H. G. 'Angular Distributions of ions Scattered in Thin Carbon Foils' <i>Nucl. Inst. Methods, 90, 283-288 (1970)</i> <i>Comment : S. H, D, He, Li, N, Ne, Ar (3-45 keV) -> C Energy loss vs. Angular Effects.</i>	1970-Hogb2 1668
1972	Williamson, J. Watt, D. E. 'The Influence of Molecular Binding on the Stopping Power of Alpha Particles in Hydrocarbons' <i>Phys. Med. Biol., 17, 486-92 (1972)</i> <i>Comment : S. 1.5 MeV He -> C, H, Many Hydrocarbons</i>	1972-Will 0233
1973	Samuel, B. Matthias, D. Ann, T. 'Radiation Damage to Carbonaceous Deposits from Alpha Particles' <i>Biol. Res. Methods, A00, 26-34 (1973)</i> <i>Comment : S. R. He (1-8 MeV) -> Biol. Samples and Hydrocarbons</i>	1973-Samu 2412
1974	Baglin, J. E. E. Ziegler, J. F. 'Tests of Bragg's Rule for Energy Loss of 4He Ions in Solid Compounds' <i>J. Appl. Phys., 45, 1413-1415 (1974)</i> <i>Comment : S. He (2 MeV) -> Si, Rh, Hf, Al, W, C, and many compounds</i>	1974-Bagl 1583
1976	Matteson, S. Chau, E. K. L. Powers, D. 'Stopping Cross Section of Bulk Graphite for Alpha Particles' <i>Phys. Rev. A, 14, 169-75 (1976)</i> <i>Comment : S. 0.3-2.0 MeV He -> C</i>	1976-Matt 0879
1977	Mertens, P. 'Energy Loss of Light 100 - 300 keV Ions in Thin Metal Foils' <i>Nucl. Inst. Methods, 149, 149-153 (1978)</i> <i>Comment : S. dS.H, He, Li, Be, B, C, N, O, F, Ne (300 keV) -> C, Ni, Co, Nb. 300 keV He, Ne, F, O, N -> C, Al, Ti, Mn, Fe, Co, Ni, Cu, Nb, Ag, Au</i>	1977-Mert 0928
1978	Oetzmann, H. Kalbitzer, S. '4He Stopping Power Measurements by using Ion Implantation and Backscattering Techniques' <i>Intl. Conf. Ion Beam Modification of Materials, Budapest -d (1978)</i> <i>Comment : S. 0.15-1 MeV He -> C, Ge, Si</i>	1978-Oetz 1134
1979	Gloeckler, G. Hsieh, K. C. 'Time-of-Flight Technique for Particle Identification at Energies 2-400 keV/amu' <i>Nucl. Inst. Methods, 165, 537-544 (1979)</i> <i>Comment : S. H, He, C, N, Ne, Ar (3-100 keV/amu) -> C</i>	1979-Gloe 1653
1979	Mertens, P. 'Electronic Stopping Cross Sections of 50-300 keV He and Li Ions' <i>Phys. Rev. A, 19, 1442-1447 (1979)</i> <i>Comment : S. 50-300 keV He, Li -> C, Al, Cu, Ag, Au</i>	1979-Mert 1130

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1979	Sander, U. Bukow, H. H. Buttlar, H. 'Correlation of Energy Loss and Crystallographic Transformation in Ion Irradiated Carbon Foils' <i>Nucl. Inst. Methods, 167, 35-39 (1979)</i> Comment : S. He (200-355 keV) -> C. Effects of target crystallization on stopping powers.	1979-Sand 1755
1979	Santry, D. C. Werner, R. D. 'Stopping Powers for Heavy Ions in Carbon over the Energy Region 200 to 2000 keV' <i>IEEE Trans. Nucl. Sci., NS-26, 1335-1337 (1979)</i> Comment : S. 200-2000 keV He, Li, C, N, O -> C	1979-Sant2 1198
1979	Santry, D. C. Werner, R. D. 'Thickness Measurements of Thin Foils using Alpha Particles from 148Gd and 241Am' <i>Nucl. Inst. Methods, 159, 523-527 (1979)</i> Comment : S, dS. 3.138 MeV - 5.486 MeV He -> Be, C, Al, Si, Ni, Ag, Au	1979-Sant3 1350
1979	Varelas, C. 'Stopping Powers of Helium and Deuterium in Gold and Carbon' <i>Preprint (1979) 13</i> Comment : S. 30-220 keV 2H, He -> Au, C	1979-Vare 1256
1980	Fearick, R. W. Sellscop, J. P. F. 'Energy Loss of Light Ions in Diamonds' <i>Nucl. Inst. Methods, 168, 51-55 (1980)</i> Comment : S, dS. 2-24 MeV H, He, Li -> C	1980-Fear 1311
1980	Mertens, P. Krist, Th. 'Stopping Ratios of 50-300 keV Light Ions in Metals' <i>Nucl. Inst. Methods, 168, 33-39 (1980)</i> Comment : S, dS. 30-300 keV H, He, Li, Be -> C, Al, Cu, Ag, Au	1980-Mert 1313
1980	Oetzmann, H. Kalbitzer, S. 'He4-Stopping Power Measurements by using Ion Implantation and Backscattering Techniques' <i>Rad. Effects, 47, 73-80 (1980)</i> Comment : S, dS. 0-1E5 keV He -> C, Si, Ge	1980-Oetz 1324
1980	Santry, D. C. Werner, R. D. 'Stopping Power Values of Be, C, Al and Si for 4He Ions' <i>Nucl. Inst. Methods, 178, 523-530 (1980)</i> Comment : S. He (0.2-2.0 MeV) -> Be, C, Al, Si	1980-Sant2 1407
1981	Bednyakov, A. A. Bulgakov, Y. V. Nikolaev, V. S. Chernov, V. L. 'Energy Straggling 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> Comment : S, dS. H, He (70-1200 keV) -> Al, C, Polystyrene	1981-Bedn 1958

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1981	Pearce, J. D. Hart, R. R. 'Stopping Power Measurements in the 20-150 keV Region using Thick Target Backscattering: H and He on C, Si and Au' <i>J. Appl. Phys., 52, 5056 (1981)</i> <i>Comment : S. H, He (20-150 keV) -> C, Si, Au</i>	1981-Pear 1736
1981	Santry, D. C. Werner, R. D. 'Stopping Power Values of C, Al, Si, Ni, Ag and Au for 3He Ions' <i>Nucl. Inst. Methods, 185, 517-521 (1981)</i> <i>Comment : S. He3 (200-2000 keV) -> C, Al, Si, Ni, Ag, Au</i>	1981-Sant2 1449
1982	Kreussler, S. Varelas, C. Sizmann, R. 'Electronic Stopping Power and Effective Charge of 50- to 230 keV D and He in C, Al, Au and Cs' <i>Phys. Rev. B, 26 (11), 6099-6103 (1982)</i> <i>Comment : S. D, He (50-230 keV) -> C, Al, Cs, Au</i>	1982-Kreu 1416
1982	Lennard, W. N. Andrews, H. R. Freeman, M. Ward, D. 'Time of Flight System for Slow Heavy Ions' <i>Nucl. Inst. Methods, 203, 565 (1982)</i> <i>Comment : S. He (650 keV) -> C, Au</i>	1982-Lenn 1701
1982	Mertens, P. Krist, Th. 'Stopping Ratios of 50 - 300 keV Light Ions in Metals' <i>Nucl. Inst. Methods, 194, 57 (1982)</i> <i>Comment : S. 50-300 keV H, He, Li, Be -> C, Al, Cu, Ag, Au</i>	1982-Mert 1133
1982	Mertens, P. Krist, Th. 'Stopping Ratios for 30 - 300 keV Ions with 1 <= Z2 <= 5' <i>J. Appl. Phys., 53 (11), 7343 - 7349 (1982)</i> <i>Comment : S. H, He, Li, Be, B (30-330 keV) -> C, V, Cr, Fe, Ni, Zn</i>	1982-Mert3 1394
1982	Mertens, P. Krist, Th. 'Energy Loss of 300 keV He and N in 150 to 800 Angstrom Carbon Foils' <i>Phys. Rev. B, 25, 9, 5591-5597 (1982)</i> <i>Comment : S. He, N (300 keV) -> C</i>	1982-Mert4 1459
1982	Schultz, F. Brandt, W. 'Effective Charge of Low Velocity Ions in Matter: A Comparison of Theoretical Predictions with Data Derived from Energy Loss Measurements' <i>Phys. Rev. B, 26, 4864 (1982)</i> <i>Comment : S. He, N, Ne, Ar (0.5-1.3 Vo) -> C, Al, Au</i>	1982-Schu 1959
1983	Krist, Th. Mertens, P. 'Stopping Ratios for 30-330 keV Light Ions in Materials with 57 <= Z2 <= 83' <i>Nucl. Inst. Methods, 218, 821-826 (1982)</i> <i>Comment : S. H, He, Li (50-300 keV) -> C, Al, Cu, Ag, Au</i>	1983-Kris 1312

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1983	Steuer, M. F. Gemmell, D. S. Kanter, E. P. Johnson, E. A. Zabransky, B. J. 'Stopping Power for Fast Nitrogen and Oxygen Dicusters in Carbon' <i>IEEE Trans. Nucl. Sci, NS-30, 1069-1073 (1983)</i> Comment : S. H, He, N, O (1-3.6 MeV) -> C. Molecular energy loss differences.	1983-Steu 1774
1984	Cowern, N. E. B. Read, P. M. Sofield, C. J. Bridwell, L. B. Lucas, M. W. 'Charge Changing Energy Loss, Higher Order Z1 Dependence, and Pre-Equilibrium Behaviour in the Stopping Power for Energetic Ions in Solids' <i>Phys. Rev. A, 30, 4, 1682-1691 (1984)</i> Comment : S. He, Li, C (3 MeV/amu) -> C (charge state analysis)	1984-Cowe 1469
1984	Cowern, N. E. B. Read, P. M. Sofield, C. J. Bridwell, L. B. Hustable, G. 'Charge State Dependence of dE/dx for Ions in Very Thin Targets' <i>Nucl. Inst. Methods, B2, 112 (1984)</i> Comment : S. He, Li, C (3 MeV/amu) -> C (target thickness effects)	1984-Cowe2 1637
1984	Eckardt, J. C. Lantschner, G. H. Jakas, M. M. Ponce, V. H. 'The Correlation Between Inelastic Energy Loss and Scattering angle in Transmission Experiments' <i>Nucl. Inst. Methods, B2, 168-172 (1984)</i> Comment : S. H, He (50-200 keV) -> C, Al (S vs. transmission angle)	1984-Ecka 1438
1984	Krist, Th. Mertens, P. 'Application of Brandt's Effective Charge Theory to Measurements for 50-350 keV Ions with 1<=Z1<=5' <i>Nucl. Inst. Methods, B2, 119-122 (1984)</i> Comment : S. H, He, Li, Be, B (50-350 keV) -> C, Al, V, Cr, Fe, Ni, Cu, Zn, Ag, Pt, Au, Bi	1984-Kris 1467
1984	Lennard, W. N. Phillips, D. Mitchell, I. V. Andrews, H. R. Ward, D. 'Search for Pre-Equilibrium Stopping for He Ions in Thin Carbon Foils' <i>Nucl. Inst. Methods, B2, 116 (1984)</i> Comment : S. H, He (270-620 keV) -> C (thickness effects)	1984-Lenn 1703
1984	Santry, D. C. Werner, R. D. 'Stopping Powers of C, Al, Si, Ti, Ni, Ag, Au and Mylar using Radioactive Alpha Sources' <i>Nucl. Inst. Methods, B1, 13 (1984)</i> Comment : S. He (2-7 MeV) -> C, Al, Si, Ti, Ni, Ag, Au, Mylar	1984-Sant 1757
1986	Krist, Th. Scanlon, P. J. Mertens, P. Barfoot, K. M. Reid, I. 'Precision Measurements of Energy Losses of HE-Ions in Thin Carbon Foils' <i>Nucl. Inst. Methods, B14, 179 (1986)</i> Comment : S. He (300-620 keV) -> c (thickness effects)	1986-Kris 1693

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1986	Mertens, P. Krist, Th. 'The Influence of Foil Inhomogeneities on the Angular Dependence of Experimental Stopping Cross Sections' <i>Nucl. Inst. Methods, B13, 95 (1986)</i> <i>Comment : S. H, He, N (300 keV) -> C (thickness effects)</i>	1986-Mert3 1721
1987	Geissel, H. Winterbon, K. B. Lennard, W. N. 'Small Angle Energy Loss Measurements for H and He Ions in Carbon' <i>Nucl. Inst. Methods, B27, 333 (1987)</i> <i>Comment : S. H, He (0.5-7.0 MeV) -> C (angular effects)</i>	1987-Geis 1652
1987	Read, P. M. Sofield, C. J. Cowern, N. E. B. Bridwell, L. B. 'Stopping Powers for Energetic Ions in Carbon Targets' <i>Nucl. Inst. Methods, B29, 583-586 (1987)</i> <i>Comment : S. He, Li, C, O (3-7 MeV/amu) -> C</i>	1987-Read 1401
1991	Ogawa, H. Katayama, I. Ikegami, J. Haruyama, Y. Aoki, A. 'Charge Changing Contributions to Energy Loss of 32 MeV He-3+ in the Charge State Non-Equilibrium Region' <i>Phys. Letters A, 160, 77-80 (1991)</i> <i>Comment : S. He-3 (32 MeV) -> C</i>	1991-Ogaw 1905
1991	Ogawa, H. Katayama, I. Ikegami, H. Haruyama, Y. Aiki, A. 'Direct Measurement of Stopping Powers for 32 MeV He-3 in a Charge State Non-Equilibrium Region' <i>Phys. Rev. B, 43, 11370-11373 (1991)</i> <i>Comment : S. He-3 (32 MeV) -> C (Thin foils)</i>	1991-Ogaw2 1912
1993	Mikheev, S. Ryzhov, Y. Shkarban, I. Yurasova, V. 'Inelastic Losses of Low Energy Ions Transmitted through Thin Films' <i>Nucl. Inst. Methods, B78, 86-90 (1993)</i> <i>Comment : S. He, Ne, Ar (1-10 keV) -> C, Ca, Ag and Ni</i>	1993-Mikh 1870
1995	Shao, Q. Huo, Y. Pan, Z. Wang, N. 'Influence of the Electronic Stopping Cross Section on Calculated Results of the Mean Projected Ranges' <i>Nucl. Tech., 18, 711-716 (1995)</i> <i>Comment : S. He (.2-2 MeV) -> C, Ni</i>	1995-Shao 1830
1997	Ogawa, H. Sakamoto, N. Katayama, I. Haruyama, Y. Saito, M. 'Energy Loss of 10 MeV/u Atomic Helium in Carbon' <i>Nucl. Inst. Methods, B 132, 36-40 (1997)</i> <i>Comment : S. He (10 MeV/u) -> C</i>	1997-Ogawa 2362
2002	Geissel, H. Weick, H. Scheidenberger, C. Bimbot, R. Gardes, D. 'Experimental Studies of Heavy-Ion Slowing Down in Matter' <i>Nucl. Inst. Methods, B195, 3-54 (2002)</i> <i>Comment : S. Summary of 18 Heavy Ion Stopping in 26 Targets</i>	2002-Geis 3141

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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
2002	Zhang, Y. Possnert, G. 'Electronic Stopping Power of Swift Heavy Ions in Carbon' <i>Nucl. Inst. Methods, B190, 69-73(2002)</i> <i>Comment : S. He, Be, C and Al -> C</i>	2002-Zhan2 3137