

Citations for Ion = He , Target = C

| Pub. Year | Authors, Title, Journal Citation and Comments | Citation Numb |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1961 | Barkan, S. 'Stopping Power of C for 210Po Alpha-Particles' <i>Nuovo Cimento, 20, 443-49 (1961)</i> Comment : R. 5.3 MeV He -> C. Ranges From Transmission Through Thick Foils. | 1961-Bark 0167 |
| 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. Rashkovyan, 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 |

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 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 |
| 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> Comment : S. H, D, He, Li, N, Ne, Ar (3-45 keV) -> C Energy loss vs. Angular Effects. | 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> Comment : S. 1.5 MeV He -> C, H, Many Hydrocarbons | 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> Comment : S. R. He (1-8 MeV) -> Biol. Samples and Hydrocarbons | 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> Comment : S. He (2 MeV) -> Si, Rh, Hf, Al, W, C, and many compounds | 1974-Bagl 1583 |
| 1976 | Abele, H. K. Glassel, P. Mair-Komor, P. Scheerer, H. J. Rosler, H. 'A Method for Measuring the Uniformity of Thin Targets by Means of an Alpha Source and a Q3D Spectrograph' <i>Nucl. Inst. Methods, 137, 157-67 (1976)</i> Comment : dS. 8.78 MeV He -> C, Au, Ni, Al, SiO ₂ , Ru | 1976-Abel 0911 |
| 1976 | Hoffman, I. Jager, E. Muller-Jahreis, U. 'Z1-Dependence of Electronic Energy Straggling of Light Ions' <i>Rad. Effects, 31, 57 (1976)</i> Comment : dS. 2 <= Z1 <=10 (10-100 Kev) -> C, Si | 1976-Hoff 1259 |
| 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> Comment : S. 0.3-2.0 MeV He -> C | 1976-Matt 0879 |
| 1977 | Kreysch, G. Muller-Jahreis, U. 'Electronic Energy Straggling of 40-100 keV Helium Ions in Carbon' <i>Rad. Effects, 31, 101-105 (1977)</i> Comment : dS. 40-100 keV He -> C | 1977-Krey 1032 |

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| 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 | Bottiger, J. Jensen, P. S. Littmark, U. 'Depth Profiles of 3He Ions Implanted into Solids at Energies Between 20 and 60 keV' <i>J. Appl. Phys., 49, 965-970 (1978)</i> <i>Comment : R, dR. 20-60 keV 3He -> C, Al, Si, V, Ni, Zr</i> | 1978-Bott2 1091 |
| 1978 | Langley, R. A. Blewer, R. S. Roth, J. 'Behaviour of Implanted D and He in Pyrolytic Graphite' <i>J. Nucl. Mater., 76 and 77, 313-321 (1978)</i> <i>Comment : R, dR. 8 keV 2H, He -> Graphite</i> | 1978-Lang 1167 |
| 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 |
| 1979 | Sander, U. Bukow, H. H. Buttler, H. 'Correlation of Energy Loss and Crystallographic Transformation in Ion Irradiated Carbon Foils' <i>Nucl. Inst. Methods, 167, 35-39 (1979)</i> <i>Comment : S. He (200-355 keV) -> C. Effects of target crystallization on stopping powers.</i> | 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> <i>Comment : S. 200-2000 keV He, Li, C, N, O -> C</i> | 1979-Sant2 1198 |

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| 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. Sellschop, 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 |
| 1980 | Sofield, C. J. Cowern, N. E. B. Freeman, J. M. 'Charge-Exchange Effects in Energy-Loss Straggling' <i>Nucl. Inst. Methods, 170, 221-225 (1980)</i> Comment : R, dR. 0-50 MeV Atomic Numbers 1-16 -> Al | 1980-Sofi 1378 |
| 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 |
| 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> Comment : S. H, He (20-150 keV) -> C, Si, Au | 1981-Pear 1736 |

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| 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 |
| 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> <i>Comment : S. H, He, N, O (1-3.6 MeV) -> C. Molecular energy loss differences.</i> | 1983-Steu 1774 |

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 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> <i>Comment : S. He, Li, C (3 MeV/amu) -> C (charge state analysis)</i> | 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> <i>Comment : S. He, Li, C (3 MeV/amu) -> C (target thickness effects)</i> | 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> <i>Comment : S. H, He (50-200 keV) -> C, Al (S vs. transmission angle)</i> | 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> <i>Comment : S. H, He, Li, Be, B (50-350 keV) -> C, Al, V, Cr, Fe, Ni, Cu, Zn, Ag, Pt, Au, Bi</i> | 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> <i>Comment : S. H, He (270-620 keV) -> C (thickness effects)</i> | 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> <i>Comment : S. He (2-7 MeV) -> > C, Al, Si, Ti, Ni, Ag, Au, Mylar</i> | 1984-Sant 1757 |
| 1985 | Fink, D. Biersack, J. P. Chen, J. T. Stadele, M. Tjan, K. 'Distributions of Light Ions and Foil Destruction after Irradiation of Organic Polymers' <i>J. Appl. Phys., 58, 668-676 (1985)</i> <i>Comment : R. H, He, Li, B, C, N, Bi (50-300 keV) -> AZ111, PMMA, Epoxy, C, Li, PMCN</i> | 1985-Fink 2114 |
| 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> <i>Comment : S. He (300-620 keV) -> c (thickness effects)</i> | 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 | Fink, D. Biersack, J. P. Stadele, M. Cheng, V. K. 'Range Profiles of Helium in Solids' <i>Rad. Effects, 104, 1-42 (1987)</i> <i>Comment : R. He-3 (50-1500 keV) -> Be, C, Mg, Al, Si, Ti, V, Mn, Fe, Ca, Ni, Cu, Zn, Ge, Zr, Nb, Mo, Ag, Cd, In, Sn, Sb, Tb, Dy, Er, Ta, W, Ir, Pt, Au, Pb, Bi, SiC, MnO2</i> | 1987-Fink 1645 |
| 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 |