

Citations for Ion = **He** , Target = **He**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb		
1913	<p>Taylor, T. S. 'The Range and Ionization of the Alpha Particles in Simple Gases' <i>Phil. Mag.</i>, 26, 402-410 (1913)</p> <p><i>Comment</i> : R. 5.3, 5.5 MeV He -> H₂, He, O₂, Air</p>	<table border="1"> <tr><td style="text-align: center;">1913-Tayl</td></tr> <tr><td style="text-align: center;">0118</td></tr> </table>	1913-Tayl	0118
1913-Tayl				
0118				
1920	<p>VonTraubenberg, H. R. 'Über Eine Methode Zur Direkten Bestimmung der Reichweite von Alpha-Strahlen in Festen Körpern' <i>Z. Physik</i>, 2, 268-276 (1920)</p> <p><i>Comment</i> : R. 7.7 MeV He -> H₂, He, Li, O₂, Mg, Al, Ca, Fe, Ni, Au, Zn, Ag, Cd, Sn, Pt, Cu, Tl, Pb.</p>	<table border="1"> <tr><td style="text-align: center;">1920-VonT</td></tr> <tr><td style="text-align: center;">0123</td></tr> </table>	1920-VonT	0123
1920-VonT				
0123				
1924	<p>Bates, L. F. 'On the Range of Alpha-Particles in Rare Gases' <i>Proc. Roy. Soc.</i>, A106, 622-632 (1924)</p> <p><i>Comment</i> : R. 6.1-MeV He -> He, Ne, O₂, Ar, Kr, Xe</p>	<table border="1"> <tr><td style="text-align: center;">1924-Bate</td></tr> <tr><td style="text-align: center;">0010</td></tr> </table>	1924-Bate	0010
1924-Bate				
0010				
1924	<p>Rutherford, E. 'The Capture and Loss of Electrons by Alpha Particles' <i>Phil. Mag.</i>, 47, 277 (1924)</p> <p><i>Comment</i> : S. He (5-7 MeV) -> Air, H, He, Mica</p>	<table border="1"> <tr><td style="text-align: center;">1924-Ruth</td></tr> <tr><td style="text-align: center;">1994</td></tr> </table>	1924-Ruth	1994
1924-Ruth				
1994				
1925	<p>Gurney, R. W. 'The Stopping-Power of Gases for Alpha-Particles of Different Velocities' <i>Proc. Roy. Soc.</i>, A107, 340-349 (1925)</p> <p><i>Comment</i> : S. 5.3, 6.1 MeV He -> H₂, He, O₂, Ne, Ar, Kr, Xe Rel. To Air</p>	<table border="1"> <tr><td style="text-align: center;">1925-Gurn</td></tr> <tr><td style="text-align: center;">0061</td></tr> </table>	1925-Gurn	0061
1925-Gurn				
0061				
1927	<p>Gibson, G. E. Eyring, H. 'The Ionization and Stopping Power of Various Gases for Alpha Particles from Polonium' <i>Phys. Rev.</i>, 30, 553-561 (1927)</p> <p><i>Comment</i> : S. He (2-7 MeV) -> H, He, N, O, Ne, Ar, CH₂. Early stopping paper- values based on differential of range/ionization measurements.</p>	<table border="1"> <tr><td style="text-align: center;">1927-Gibs</td></tr> <tr><td style="text-align: center;">1577</td></tr> </table>	1927-Gibs	1577
1927-Gibs				
1577				
1934	<p>Mano, G. 'Recherches Sur L'Absorption Des Rayons Alpha' <i>Ann. de Physique</i>, 1, 408-531 (1934)</p> <p><i>Comment</i> : S. 4.2-7.7 MeV He -> H₂, He, Ne, Ar, Air</p>	<table border="1"> <tr><td style="text-align: center;">1934-Mano</td></tr> <tr><td style="text-align: center;">0085</td></tr> </table>	1934-Mano	0085
1934-Mano				
0085				
1934	<p>Naidu, R. 'Sur Les Courbes D'Ionisation Des Rayons Alpha Du Polonium Dans Les Gaz Rares' <i>J. Phys. Radium</i>, 5, 575-77 (1934)</p> <p><i>Comment</i> : S. 3-7 MeV He -> He, Ne, Ar, Kr, Xe. All Rel. To Air</p>	<table border="1"> <tr><td style="text-align: center;">1934-Naid</td></tr> <tr><td style="text-align: center;">0093</td></tr> </table>	1934-Naid	0093
1934-Naid				
0093				
1944	<p>Gray, L. H. 'The Ionization Method of Measuring Neutron Energy' <i>Proc. Comb. Phil. Soc.</i>, 40, 72-102 (1944)</p> <p><i>Comment</i> : S. H, He (.25 -8 MeV) -> He, N, O, Ne, Ar, Air. Early paper on stopping and ionization effects of charged particles.</p>	<table border="1"> <tr><td style="text-align: center;">1944-Gray</td></tr> <tr><td style="text-align: center;">1578</td></tr> </table>	1944-Gray	1578
1944-Gray				
1578				

Citations for Ion = **He** , Target = **He**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1952	Evans, G. E. Barnett, C. F. Stier, P. M. DeRito, V. L. 'Extrapolated Ionization Ranges of Ions Heavier Than Protons' <i>ORNL-1278, 17-21 (1952)</i> <i>Comment : R. (50-300 keV) H, He, N, Ne, Ar -> He, N2, Ar, Air</i>	1952-Evan 0057
1952	Mills, R. G. 'A Cloud Chamber Investigation of Low Energy Range-Energy Relations' <i>UCRL Rpt. 1815, 1-89 (1952)</i> <i>Comment : R. 50-250 keV H, 100-360 keV He, 30-110 keV O -> He, O2, H2O</i>	1952-Mill 0092
1953	Cooper, P. N. Crocker, V. S. Walker, J. 'The Relative Stopping-Power of Hydrogen and of Helium for Slow Alpha-Particles' <i>Proc. Phys. Soc. A66, 658-59 (1953)</i> <i>Comment : R. 1.5-4.5 MeV He -> H2 He. Rel. To Air</i>	1953-Coop 0036
1953	Evans, G. E. Stier, P. M. Barnett, C. F. 'The Stopping of Heavy Ions in Gases' <i>Phys. Rev., 90, 825-32 (1953)</i> <i>Comment : R. 20-250 keV He, N, Ne, Ar -> He, N2, Ar, Air</i>	1953-Evan 0048
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	Boicourt, G. P. Brolley, J. E. 'Po Alpha Ranges in Various Counting Mixtures' <i>Rev. Sci. Inst., 25, 95-96 (1954)</i> <i>Comment : R. 5.3 MeV He -> H2, He, N2, Ar, Ar + xx% CO2, CH4, Kr,</i>	1954-Boic 0023
1955	Riezler, U. Rudloff, A. 'Ionisation und Energieverlust von Alpha-Teilchen in Verschiedenen Gasen' <i>Ann. Physik, 18, 224-245 (1955)</i> <i>Comment : R. S Rel. To Air. 5.3 MeV He -> He, Ne, Ar, Kr, Xe, H2, N2, O2, NH3, CO, CO2, NO, N2O, CH4, C2H6, C3H8, C4H10</i>	1955-Riez 0567
1961	Riezler, W. Schepers, H. 'Ionisation und Energieverlust von Alpha-Teilchen in Verschiedenen Gasen' <i>Ann. Physik, 8, 270-277 (1961)</i> <i>Comment : R. S Rel. To Air 8.78 MeV He -> Air, He, Ne, Ar, Kr, H2, N2, O2, CO, CO2, CH4, C2H6, C3H8, C4H10</i>	1961-Riez 0568
1962	Martin, F. W. Northcliffe, L. C. 'Energy Loss and Effective Charge of He, C, and Ar Ions' <i>Phys. Rev., 128, 1166-1174 (1962)</i> <i>Comment : S. He, C, Ar (4-400 MeV) -> H, He, N, Ar</i>	1962-Mart 0148

Citations for Ion = **He** , Target = **He**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
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
1969	Ramirez, J. J. Prior, R. M. Swint, J. B. Quinton, A. R. Blue, R. A. 'Energy Straggling of Alpha Particles through Gases' <i>Phys. Rev., 179, 310-14 (1969)</i> <i>Comment : S, dS. 1-3.5 MeV He -> He, Air, Ar, Kr, Xe</i>	1969-Rami 0388
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
1971	Hvelplund, P. 'Energy Loss and Straggling of 100-500 keV Atoms with $Z \leq 12$ 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
1972	Huebner, J. S. Skolil, L. L. 'The Residual Energy and Stopping Power of 210Po Alpha Particles in Air, CO₂, and He' <i>Am. J. Phys., 40, 1177-78 (1972)</i> <i>Comment : S. 3-5.3 MeV He -> Air, CO₂, He</i>	1972-Hueb 0666
1973	Al-Bedri, M. B. Harris, S. J. Sykes, D. A. 'The Dependence of Energy Straggling on the Atomic Number of Absorber' <i>Nucl. Inst. Methods, 106, 241-43 (1973)</i> <i>Comment : dS. 5.2 MeV He -> He, Ne, Ar, Kr, CH₄, CO₂, N₂, Air.</i>	1973-Al 0472
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
1975	Brendle, M. Gugel, F. Steidle, G. 'The Ranges of Alpha Particles in H₂, He, CH₄ and CO₂ at Energies from 0.5 to 5.3 MeV.' <i>Nucl. Inst. Methods, 130, 253-256 (1975)</i> <i>Comment : R. 0.5-5.3 MeV He -> H₂, He, CH₄, CO₂</i>	1975-Bren 0790
1977	Besenbacher, F. Heinmeier, J. Hvelplund, P. Knudsen, H. 'Energy-Loss Straggling for Protons and Helium Ions' <i>Phys. Letters, 61A, 75-77 (1977)</i> <i>Comment : dS. 50-500 keV/Nucleon H, He -> Kr, N, He</i>	1977-Bese2 1025

Citations for Ion = **He** , Target = **He**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb
1977	Cameron, J. M. Mccamis, R. H. Miller, G. A. Moss, G. A. Roy, G. 'Energy Loss and Stragglng of Low Energy Alphas in Helium' <i>Nucl. Inst. Methods, 145, 405-407 (1977)</i> <i>Comment : S, dS. 0.1-1.7 MeV He -> He</i>	1977-Came 1042
1978	Hanke, C. C. Laursen, J. 'Stopping Cross Sections for Alpha Particles from 1.0 to 8.5 MeV in H2, He, N2, O2, 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
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
1980	Sofield, C. J. Cowern, N. E. B. Freeman, J. M. 'Charge-Exchange Effects in Energy-Loss Stragglng' <i>Nucl. Inst. Methods, 170, 221-225 (1980)</i> <i>Comment : R, dR. 0-50 MeV Atomic Numbers 1-16 -> Al</i>	1980-Sofi 1378
1980	Thwaites, D. I. 'Stopping Cross Sections of Various Gases for Alpha Partifcles in the Energy Region 0.2-5.5 MeV' <i>Phys. Med. Biol., 25 (5), 865-875 (1980)</i> <i>Comment : S. He (0.2-5.5 MeV) -> He, N, Ar, CH4, Air</i>	1980-Thwa 1489
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	Clouvas, A. Gaillard, M. J. De Pinho, A. G. Poizat, J. C. Rimillieux, J. 'Nonequilibrium Effects in the Energy Loss of He Beams in Very Thin Carbon Foils' <i>Phys. Letters, 103A, 419 (1984)</i> <i>Comment : S. He (1.5-2.4 MeV) -> C (charge state effects)</i>	1984-Clou 1636

Citations for Ion = **He** , Target = **He**

Pub. Year	Authors, Title, Journal Citation and Comments	Citation Numb		
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> Comment : S. H, He (0.7-3.0 MeV) -> H, He, N, O, Ne, Ar, Kr, Xe, CH4	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">1990-Reit</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">1933</td> </tr> </table>	1990-Reit	1933
1990-Reit				
1933				
1992	Golser, R. Semrad, D. 'Energy Loss of Hydrogen and Helium Ions in Hydrogen and Helium Gas: Looking for Exceptions from Velocity Proportionality' <i>Nucl. Inst. Methods, B69, 18-21 (1992)</i> Comment : S. H, D, He (4 keV/amu) -> H, He	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">1992-Gols3</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">1893</td> </tr> </table>	1992-Gols3	1893
1992-Gols3				
1893				
1993	Novkovic, D. Subotic, K. Milosevic, Z. Manic, S. Stojanovic, M. 'Alpha Particle Energy Straggling Measurements in Nobel Gases' <i>J. Moscow Phys. Soc. (UK), 3, 215-220 (1993)</i> Comment : dS. He(8.8 MeV) -> He, Ne, Ar, Kr, Xe	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">1993-Novk</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">2077</td> </tr> </table>	1993-Novk	2077
1993-Novk				
2077				
1997	Fukuda, A. 'Stopping Powers of He and Ar Gases for 50-200 keV He-3 Ions' <i>Rad. Prot. Dosimetry, 70, 47-48 (1997)</i> Comment : S. He3 (50-2000 keV) -> He, Ar	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">1997-Fuku</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">2180</td> </tr> </table>	1997-Fuku	2180
1997-Fuku				
2180				