

H 1 0.014	Li 3 0.055	Be 4 0.112	Na 11 1.072	Mg 12 1.305 0.063 0.050 0.049	K 19 3.607 0.341 0.297 0.295	Ca 20 4.493 0.463 0.404 0.399	Sc 21 17.080 2.373 2.156 2.080	Ti 22 4.965 0.531 0.461 0.454	V 23 5.465 0.604 0.520 0.512	Cr 24 5.989 0.682 0.584 0.574	Mn 25 6.540 0.754 0.650 0.639	Fe 26 7.112 0.842 0.720 0.707	Co 27 7.709 0.929 0.793 0.778	Ni 28 8.333 1.012 0.872 0.855	Cu 29 8.979 1.100 0.952 0.932	Zn 30 9.659 1.196 1.044 1.021	Ga 31 10.367 1.302 1.142 1.115	Ge 32 11.104 1.414 1.249 1.218	As 33 11.868 1.530 1.360 1.325	Se 34 12.658 1.653 1.477 1.436	Br 35 13.474 1.782 1.596 1.550	Kr 36 14.322 1.920 1.726 1.675	Rb 37 15.200 2.065 1.863 1.805	Sr 38 16.105 2.216 2.007 1.940	Y 39 17.080 2.373 2.156 2.080	Zr 40 18.986 2.532 2.307 2.223	Nb 41 18.986 2.698 2.465 2.371	Mo 42 19.999 2.866 2.625 2.520	Tc 43 21.045 3.043 2.793 2.677	Ru 44 22.117 3.224 2.967 2.838	Rh 45 23.220 3.412 3.146 3.003	Pd 46 24.350 3.605 3.330 3.173	Ag 47 25.514 3.806 3.524 3.351	Cd 48 26.711 4.018 3.727 3.537	In 49 27.940 4.238 3.938 3.730	Sn 50 29.200 4.465 4.156 3.929	Sb 51 30.491 4.698 4.381 4.132	Te 52 31.813 4.939 4.612 4.341	I 53 33.169 5.188 4.852 4.557	Xe 54 34.582 5.452 5.100 4.781	Fr 87 5.012	Ra 88 5.247	Ac 89 5.483	Cs 55 35.985 5.713 5.359 5.012	Ba 56 37.441 5.987 5.624 5.247	La 57 38.925 6.267 5.891 5.483	Ce 58 40.444 6.549 6.165 5.724	Pr 59 41.991 6.835 6.441 5.965	Nd 60 43.569 7.126 6.722 6.208	Pm 61 45.184 7.428 7.013 6.460	Sm 62 46.835 7.737 7.312 6.717	Eu 63 48.520 8.052 7.618 6.977	Gd 64 50.240 8.376 7.931 7.243	Tb 65 51.996 8.708 8.252 7.515	Dy 66 53.789 9.047 8.581 7.790	Ho 67 55.618 9.395 8.919 8.071	Er 68 57.486 9.752 9.265 8.358	Tm 69 59.390 10.116 9.618 8.648	Yb 70 61.332 10.488 9.978 8.943	Lu 71 63.314 10.870 10.349 9.244	He 2 0.025	Ne 10 0.867	Ar 18 3.202 0.287 0.251 0.248	Cl 17 2.822 0.238 0.202 0.200	S 16 2.472 0.193 0.164 0.162	O 8 0.537	F 9 0.686	Ne 10 0.867
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Based on tables of McMaster *et al.*

Energies are in KeV

X-ray Excitation Energies of the Elements

Symbol	Z	Cu 29
K	→	8.979
L _I	→	1.100
L _{II}	→	0.952
L _{III}	→	0.932

Ce 58 40.444 6.549 6.165 5.724	Pr 59 41.991 6.835 6.441 5.965	Nd 60 43.569 7.126 6.722 6.208	Pm 61 45.184 7.428 7.013 6.460	Sm 62 46.835 7.737 7.312 6.717	Eu 63 48.520 8.052 7.618 6.977	Gd 64 50.240 8.376 7.931 7.243	Tb 65 51.996 8.708 8.252 7.515	Dy 66 53.789 9.047 8.581 7.790	Ho 67 55.618 9.395 8.919 8.071	Er 68 57.486 9.752 9.265 8.358	Tm 69 59.390 10.116 9.618 8.648	Yb 70 61.332 10.488 9.978 8.943	Lu 71 63.314 10.870 10.349 9.244	Th 90 109.649 20.470 19.692 16.300	Pa 91 115.603 21.756 20.947 17.167	U 92 115.603 21.756 20.947 17.167	Np 93 121.760 23.095 22.263 18.053	Pu 94 121.760 23.095 22.263 18.053	Am 95 121.760 23.095 22.263 18.053	Cm 96 121.760 23.095 22.263 18.053	Bk 97 121.760 23.095 22.263 18.053	Cf 98 121.760 23.095 22.263 18.053	Es 99 121.760 23.095 22.263 18.053	Fm 100 121.760 23.095 22.263 18.053	Md 101 121.760 23.095 22.263 18.053	No 102 121.760 23.095 22.263 18.053	Lr 103 121.760 23.095 22.263 18.053
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Compilation of X-Ray Cross Sections

W. H. McMaster, N. Kerr Del Grande, J. H. Mallett, and J. H. Hubbell

Lawrence Livermore National Laboratory Report

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