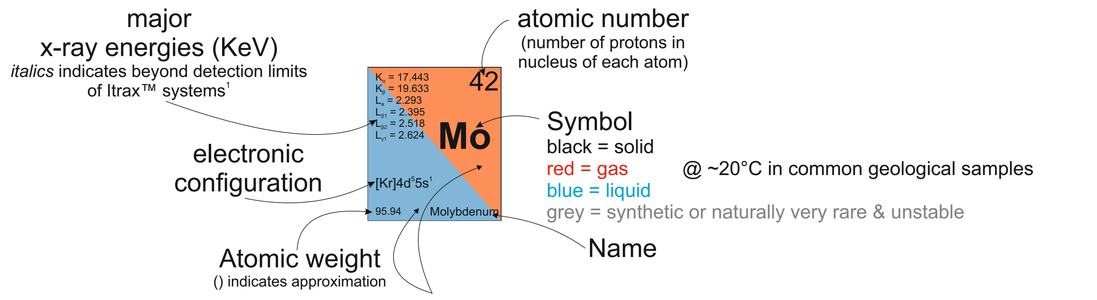
The Core-Scanning µXRF Table of the Elements

Showing x-ray fluorescence energies, electron configuration, atomic weights, etc.



1 **H** 1s¹ 6.941 Hydrogen																	2 **He** 1s² 4.002602 Helium
K_α = *0.054* 3 **Li** [He]2s¹ 6.941 Lithium	K_α = *0.109* 4 **Be** [He]2s² 9.012182 Beryllium											K_α = *0.183* 5 **B** [He]2s²p¹ 10.811 Boron	K_α = *0.277* 6 **C** [He]2s²p² 12.011 Carbon	K_α = *0.392* 7 **N** [He]2s²p³ 14.00674 Nitrogen	K_α = *0.525* 8 **O** [He]2s²p⁴ 15.9994 Oxygen	K_α = *0.677* 9 **F** [He]2s²p⁵ 18.9984032 Fluorine	K_α = *0.849* 10 **Ne** [He]2s²p⁶ 20.1797 Neon
K_α = *1.041* K_β = *1.071* 11 **Na** [Ne]3s¹ 22.989768 Sodium	K_α = 1.254 K_β = 1.302 12 **Mg** [Ne]3s² 24.3050 Magnesium											K_α = 1.487 K_β = 1.557 13 **Al** [Ne]3s²p¹ 26.981539 Aluminium	K_α = 1.74 K_β = 1.838 14 **Si** [Ne]3s²p² 28.0855 Silicone	K_α = 2.015 K_β = 2.142 15 **P** [Ne]3s²p³ 30.973762 Phosphorus	K_α = 2.307 K_β = 2.468 16 **S** [Ne]3s²p⁴ 32.066 Sulfur	K_α = 2.622 K_β = 2.817 17 **Cl** [Ne]3s²p⁵ 35.4527 Chlorine	K_α = 2.957 K_β = 3.191 18 **Ar** [Ne]3s²p⁶ 39.948 Argon
K_α = 3.312 K_β = 3.589 19 **K** [Ar]4s¹ 39.0983 Potassium	K_α = 3.69 K_β = 4.012 20 **Ca** [Ar]4s² 40.078 Calcium	K_α = 4.088 K_β = 4.459 21 **Sc** [Ar]3d¹4s² 44.955910 Scandium	K_α = 4.508 K_β = 4.931 22 **Ti** [Ar]3d²4s² 47.88 Titanium	K_α = 4.949 K_β = 5.427 23 **V** [Ar]3d³4s² 50.9415 Vanadium	K_α = 5.411 K_β = 5.947 24 **Cr** [Ar]3d⁵4s¹ 51.9961 Chromium	K_α = 5.895 K_β = 6.492 25 **Mn** [Ar]3d⁵4s² 54.93805 Manganese	K_α = 6.4 K_β = 7.059 26 **Fe** [Ar]3d⁶4s² 55.847 Iron	K_α = 6.925 K_β = 7.649 27 **Co** [Ar]3d⁷4s² 58.93320 Cobalt	K_α = 7.472 K_β = 8.265 28 **Ni** [Ar]3d⁸4s² 58.6934 Nickel	K_α = 8.041 K_β = 8.907 29 **Cu** [Ar]3d¹⁰4s¹ 63.546 Copper	K_α = 8.631 K_β = 9.572 L_α = 1.009 $L_{\beta1}$ = 1.035 30 **Zn** [Ar]3d¹⁰4s² 65.39 Zinc	K_α = 9.243 K_β = 10.263 L_α = 1.096 $L_{\beta1}$ = 1.125 31 **Ga** [Ar]3d¹⁰4s²p¹ 69.723 Gallium	K_α = 9.876 K_β = 10.984 L_α = 1.186 $L_{\beta1}$ = 1.219 32 **Ge** [Ar]3d¹⁰4s²p² 72.61 Germanium	K_α = 10.532 K_β = 11.729 L_α = 1.282 $L_{\beta1}$ = 1.317 33 **As** [Ar]3d¹⁰4s²p³ 74.92159 Arsenic	K_α = 11.21 K_β = 12.501 L_α = 1.378 $L_{\beta1}$ = 1.419 34 **Se** [Ar]3d¹⁰4s²p⁴ 78.96 Selenium	K_α = 11.907 K_β = 13.296 L_α = 1.48 $L_{\beta1}$ = 1.526 35 **Br** [Ar]3d¹⁰4s²p⁵ 79.904 Bromine	K_α = 12.63 K_β = 14.12 L_α = 1.587 $L_{\beta1}$ = 1.637 36 **Kr** [Ar]3d¹⁰4s²p⁶ 83.80 Krypton
K_α = 13.375 K_β = 14.971 L_α = 1.694 $L_{\beta1}$ = 1.752 37 **Rb** [Kr]5s¹ 85.4678 Rubidium	K_α = 14.142 K_β = 15.849 L_α = 1.806 $L_{\beta1}$ = 1.872 38 **Sr** [Kr]5s² 87.62 Strontium	K_α = 14.933 K_β = 16.754 L_α = 1.922 $L_{\beta1}$ = 1.996 39 **Y** [Kr]4d¹5s² 88.90585 Yttrium	K_α = 15.746 K_β = 17.687 L_α = 2.042 $L_{\beta1}$ = 2.124 $L_{\beta2}$ = 2.219 $L_{\gamma1}$ = 2.303 40 **Zr** [Kr]4d²5s² 91.224 Zirconium	K_α = 16.584 K_β = 18.647 L_α = 2.166 $L_{\beta1}$ = 2.257 $L_{\beta2}$ = 2.367 $L_{\gamma1}$ = 2.462 41 **Nb** [Kr]4d⁴5s¹ 92.90638 Niobium	K_α = 17.443 K_β = 19.633 L_α = 2.293 $L_{\beta1}$ = 2.395 $L_{\beta2}$ = 2.518 $L_{\gamma1}$ = 2.624 42 **Mo** [Kr]4d⁵5s¹ 95.94 Molybdenum	K_α = 18.367 K_β = 18.382 K_β = 20.647 L_α = 2.424 $L_{\beta1}$ = 2.538 $L_{\beta2}$ = 2.674 $L_{\gamma1}$ = 2.792 43 **Tc** [Kr]4d⁵5s² (97.9072) Technetium	K_α = 19.279 K_β = 19.15 K_β = 21.687 L_α = 2.558 $L_{\beta1}$ = 2.683 $L_{\beta2}$ = 2.838 $L_{\gamma1}$ = 2.965 44 **Ru** [Kr]4d⁷5s¹ 101.07 Ruthenium	K_α = 20.216 K_β = 20.074 K_β = 22.759 L_α = 2.696 $L_{\beta1}$ = 2.834 $L_{\beta2}$ = 3.001 $L_{\gamma1}$ = 3.144 45 **Rh** [Kr]4d⁸5s¹ 102.90550 Rhodium	K_α = 21.177 K_β = 21.02 K_β = 23.859 L_α = 2.838 $L_{\beta1}$ = 2.99 $L_{\beta2}$ = 3.172 $L_{\gamma1}$ = 3.329 46 **Pd** [Kr]4d¹⁰ 106.42 Palladium	K_α = 22.163 K_β = 21.99 K_β = 24.987 L_α = 2.984 $L_{\beta1}$ = 3.151 $L_{\beta2}$ = 3.348 $L_{\gamma1}$ = 3.52 47 **Ag** [Kr]4d¹⁰5s¹ 107.8682 Silver	K_α = 23.174 K_β = 22.984 L_α = 3.133 $L_{\beta1}$ = 3.317 $L_{\beta2}$ = 3.528 $L_{\gamma1}$ = 3.717 48 **Cd** [Kr]4d¹⁰5s² 112.411 Cadmium	K_α = 24.21 K_β = 24.002 L_α = 27.382 $L_{\beta1}$ = 3.287 $L_{\beta2}$ = 3.487 $L_{\gamma1}$ = 3.714 49 **In** [Kr]4d¹⁰5s²p¹ 114.818 Indium	K_α = 25.271 K_β = 25.044 L_α = 3.444 $L_{\beta1}$ = 3.663 $L_{\beta2}$ = 3.905 $L_{\gamma1}$ = 4.131 50 **Sn** [Kr]4d¹⁰5s²p² 118.710 Tin	K_α = 26.359 K_β = 26.111 L_α = 3.605 $L_{\beta1}$ = 3.844 $L_{\beta2}$ = 4.101 $L_{\gamma1}$ = 4.348 51 **Sb** [Kr]4d¹⁰5s²p³ 121.757 Antimony	K_α = 27.472 K_β = 27.202 L_α = *31.128* L_α = 3.769 $L_{\beta1}$ = 4.03 $L_{\beta2}$ = 4.302 $L_{\gamma1}$ = 4.571 52 **Te** [Kr]4d¹⁰5s²p⁴ 127.60 Tellurium	K_α = 28.612 K_β = 28.317 K_β = *32.437* L_α = 3.937 $L_{\beta1}$ = 4.221 $L_{\beta2}$ = 4.508 $L_{\gamma1}$ = 4.801 53 **I** [Kr]4d¹⁰5s²p⁵ 126.90447 Iodine	K_α = 29.802 K_β = 29.458 K_β = *33.777* L_α = 4.111 $L_{\beta1}$ = 4.422 $L_{\beta2}$ = 4.720 $L_{\gamma1}$ = 5.036 54 **Xe** [Kr]4d¹⁰5s²p⁶ 131.29 Xenon
K_α = 30.973 K_β = 30.625 K_β = *35.149* L_α = 4.286 $L_{\beta1}$ = 4.62 $L_{\beta2}$ = 4.936 $L_{\gamma1}$ = 5.28 55 **Cs** [Xe]6s¹ 132.90543 Cesium	K_α = *32.194* K_β = *31.817* K_β = *36.553* L_α = 4.467 $L_{\beta1}$ = 4.828 $L_{\beta2}$ = 5.157 $L_{\gamma1}$ = 5.531 56 **Ba** [Xe]6s² 137.327 Barium	lanthanides	K_α = *55.79* K_β = *54.579* K_β = *63.562* L_α = 7.898 $L_{\beta1}$ = 9.023 $L_{\beta2}$ = 9.347 $L_{\gamma1}$ = 10.516 $M_{\alpha1}$ = 1.645 72 **Hf** [Xe]4f¹⁴5d²6s² 178.49 Hafnium	K_α = *57.532* K_β = *56.277* K_β = *65.556* L_α = 8.145 $L_{\beta1}$ = 9.343 $L_{\beta2}$ = 9.652 $L_{\gamma1}$ = 10.895 $M_{\alpha1}$ = 1.71 73 **Ta** [Xe]4f¹⁴5d³6s² 180.9479 Tantalum	K_α = *59.318* K_β = *57.982* K_β = *67.586* L_α = 8.398 $L_{\beta1}$ = 9.672 $L_{\beta2}$ = 9.962 $L_{\gamma1}$ = 11.286 $M_{\alpha1}$ = 1.775 74 **W** [Xe]4f¹⁴5d⁴6s² 183.84 Tungsten	K_α = *61.14* K_β = *59.718* K_β = *69.659* L_α = 8.651 $L_{\beta1}$ = 10.01 $L_{\beta2}$ = 10.275 $L_{\gamma1}$ = 11.685 $M_{\alpha1}$ = 1.843 75 **Re** [Xe]4f¹⁴5d⁵6s² 186.207 Rhenium	K_α = *63.001* K_β = *61.487* K_β = *71.775* L_α = 8.91 $L_{\beta1}$ = 10.355 $L_{\beta2}$ = 10.599 $L_{\gamma1}$ = 12.095 $M_{\alpha1}$ = 1.91 76 **Os** [Xe]4f¹⁴5d⁶6s² 190.23 Osmium	K_α = *64.896* K_β = *63.287* K_β = *73.933* L_α = 9.173 $L_{\beta1}$ = 10.708 $L_{\beta2}$ = 10.92 $L_{\gamma1}$ = 12.513 $M_{\alpha1}$ = 1.98 77 **Ir** [Xe]4f¹⁴5d⁷6s² 192.22 Iridium	K_α = *66.832* K_β = *65.112* K_β = *76.131* L_α = 9.441 $L_{\beta1}$ = 11.071 $L_{\beta2}$ = 11.251 $L_{\gamma1}$ = 12.942 $M_{\alpha1}$ = 2.051 78 **Pt** [Xe]4f¹⁴5d⁹6s¹ 195.06 Platinum	K_α = *68.804* K_β = *66.99* K_β = *78.372* L_α = 9.711 $L_{\beta1}$ = 11.442 $L_{\beta2}$ = 11.585 $L_{\gamma1}$ = 13.382 $M_{\alpha1}$ = 2.123 79 **Au** [Xe]4f¹⁴5d¹⁰6s¹ 196.96654 Gold	K_α = *70.819* K_β = *68.895* K_β = *80.656* L_α = 9.987 $L_{\beta1}$ = 11.823 $L_{\beta2}$ = 11.924 $L_{\gamma1}$ = 13.83 $M_{\alpha1}$ = 2.195 80 **Hg** [Xe]4f¹⁴5d¹⁰6s² 200.59 Mercury	K_α = *72.872* K_β = *70.832* K_β = *82.985* L_α = 10.266 $L_{\beta1}$ = 12.213 $L_{\beta2}$ = 12.272 $L_{\gamma1}$ = 14.292 $M_{\alpha1}$ = 2.271 81 **Tl** [Xe]4f¹⁴5d¹⁰6s²p¹ 204.3833 Thallium	K_α = *74.969* K_β = *72.804* K_β = *85.357* L_α = 10.549 $L_{\beta1}$ = 12.614 $L_{\beta2}$ = 12.623 $L_{\gamma1}$ = 14.764 $M_{\alpha1}$ = 2.346 82 **Pb** [Xe]4f¹⁴5d¹⁰6s²p² 207.2 Lead	K_α = *77.108* K_β = *74.815* K_β = *87.774* L_α = 10.836 $L_{\beta1}$ = 13.024 $L_{\beta2}$ = 12.98 $L_{\gamma1}$ = 15.248 $M_{\alpha1}$ = 2.423 83 **Bi** [Xe]4f¹⁴5d¹⁰6s²p³ 208.98037 Bismuth	K_α = *79.29* K_β = *76.862* K_β = *90.243* L_α = 11.128 $L_{\beta1}$ = 13.447 $L_{\beta2}$ = 13.34 $L_{\gamma1}$ = 15.744 84 **Po** [Xe]4f¹⁴5d¹⁰6s²p⁴ (208.9824) Polonium	K_α = *81.52* K_β = *78.95* K_β = *92.754* L_α = 11.424 $L_{\beta1}$ = 13.876 $L_{\beta2}$ = 13.705 $L_{\gamma1}$ = 16.251 85 **At** [Xe]4f¹⁴5d¹⁰6s²p⁵ (209.9871) Astatine	K_α = *83.78* K_β = *81.07* K_β = *95.315* L_α = 11.724 $L_{\beta1}$ = 14.316 $L_{\beta2}$ = 14.077 $L_{\gamma1}$ = 16.77 86 **Rn** [Xe]4f¹⁴5d¹⁰6s²p⁶ (222.0176) Radon
K_α = *86.1* K_β = *83.23* K_β = *97.93* L_α = 12.029 $L_{\beta1}$ = 14.77 $L_{\beta2}$ = 14.45 $L_{\gamma1}$ = 17.303 87 **Fr** [Rn]7s¹ (223.0197) Francium	K_α = *88.47* K_β = *85.43* K_β = *100.593* L_α = 12.338 $L_{\beta1}$ = 15.236 $L_{\beta2}$ = 14.841 $L_{\gamma1}$ = 17.849 88 **Ra** [Rn]7s² (226.0254) Radium	actinides	105 **Rf** [Rn]5f¹⁴6d²7s² (261)	105 **Db** [Rn]5f¹⁴6d³7s² (262) Dubnium	106 **Sg** [Rn]5f¹⁴6d⁴7s² (263) Seaborgium	107 **Bh** [Rn]5f¹⁴6d⁵7s² (262) Bohrium	108 **Hs** [Rn]5f¹⁴6d⁶7s² (265) Hassium	109 **Mt** [Rn]5f¹⁴6d⁷7s² (266) Meitnerium	110 **Ds** [Rn]5f¹⁴6d⁹7s¹ (269) Darmstadtium	111 **Rs** [Rn]5f¹⁴6d¹⁰7s¹ (272) Roentgenium	112 **Cn** [Rn]5f¹⁴6d¹⁰7s² (277) Copernicium	113 **Nh** Nihonium	114 **Cn** [Rn]5f¹⁴6d¹⁰7s²7p² (285) Copernicium	115 **Mc** Moscovium	116 **Lv** [Rn]5f¹⁴6d¹⁰7s²7p⁴ (285) Livermorium	117 **Ts** Tennessine	118 **Og** Oganesson

$K_{\alpha1}$ = *33.442* $K_{\beta1}$ = *33.034* K_β = *37.986* L_α = 4.651 $L_{\beta1}$ = 5.042 $L_{\beta2}$ = 5.384 $L_{\gamma1}$ = 5.789 $M_{\alpha1}$ = 0.833 57 **La** [Xe]5d¹6s² 138.9055 Lanthanum	$K_{\alpha1}$ = *34.72* $K_{\beta1}$ = *34.279* K_β = *39.453* L_α = 4.84 $L_{\beta1}$ = 5.262 $L_{\beta2}$ = 5.613 $L_{\gamma1}$ = 6.052 $M_{\alpha1}$ = 0.883 58 **Ce** [Xe]4f¹5d¹6s² 140.115 Cerium	$K_{\alpha1}$ = *36.026* $K_{\beta1}$ = *35.55* K_β = *40.953* L_α = 5.034 $L_{\beta1}$ = 5.489 $L_{\beta2}$ = 5.85 $L_{\gamma1}$ = 6.322 $M_{\alpha1}$ = 0.927 59 **Pr** [Xe]4f³6s² 140.90765 Praseodymium	$K_{\alpha1}$ = *37.361* $K_{\beta1}$ = *36.847* K_β = *42.484* L_α = 5.23 $L_{\beta1}$ = 5.722 $L_{\beta2}$ = 6.089 $L_{\gamma1}$ = 6.602 $M_{\alpha1}$ = 0.978 60 **Nd** [Xe]4f⁴6s² 144.24 Neodymium	$K_{\alpha1}$ = *38.649* $K_{\beta1}$ = *38.171* K_β = *44.049* L_α = 5.431 $L_{\beta1}$ = 5.961 $L_{\beta2}$ = 6.339 $L_{\gamma1}$ = 6.892 61 **Pm** [Xe]4f⁵6s² (144.9127) Promethium	$K_{\alpha1}$ = *40.124* $K_{\beta1}$ = *39.522* K_β = *45.649* L_α = 5.636 $L_{\beta1}$ = 6.205 $L_{\beta2}$ = 6.586 $L_{\gamma1}$ = 7.178 $M_{\alpha1}$ = 1.081 62 **Sm** [Xe]4f⁶6s² 150.36 Samarium	$K_{\alpha1}$ = *41.529* $K_{\beta1}$ = *40.877* K_β = *47.283* L_α = 5.846 $L_{\beta1}$ = 6.456 $L_{\beta2}$ = 6.843 $L_{\gamma1}$ = 7.48 $M_{\alpha1}$ = 1.131 63 **Eu** [Xe]4f⁷6s² 151.965 Europium	$K_{\alpha1}$ = *42.983* $K_{\beta1}$ = *42.280* K_β = *48.949* L_α = 6.059 $L_{\beta1}$ = 6.713 $L_{\beta2}$ = 7.103 $L_{\gamma1}$ = 7.786 $M_{\alpha1}$ = 1.185 64 **Gd** [Xe]4f⁷5d¹6s² 157.25 Gadolinium	$K_{\alpha1}$ = *44.470* $K_{\beta1}$ = *43.744* K_β = *50.65* L_α = 6.275 $L_{\beta1}$ = 6.978 $L_{\beta2}$ = 7.367 $L_{\gamma1}$ = 8.102 $M_{\alpha1}$ = 1.24 65 **Tb** [Xe]4f⁹6s² 158.92534 Terbium	$K_{\alpha1}$ = *45.985* $K_{\beta1}$ = *45.208* K_β = *52.384* L_α = 6.495 $L_{\beta1}$ = 7.248 $L_{\beta2}$ = 7.636 $L_{\gamma1}$ = 8.419 $M_{\alpha1}$ = 1.293 66 **Dy** [Xe]4f¹⁰6s² 162.50 Dysprosium	$K_{\alpha1}$ = *47.528* $K_{\beta1}$ = *46.686* K_β = *54.155* L_α = 6.72 $L_{\beta1}$ = 7.525 $L_{\beta2}$ = 7.911 $L_{\gamma1}$ = 8.747 $M_{\alpha1}$ = 1.348 67 **Ho** [Xe]4f¹¹6s² 164.93032 Holmium	$K_{\alpha1}$ = *49.128* $K_{\beta1}$ = *48.221* K_β = *55.963* L_α = 6.948 $L_{\beta1}$ = 7.811 $L_{\beta2}$ = 8.189 $L_{\gamma1}$ = 9.089 $M_{\alpha1}$ = 1.406 68 **Er** [Xe]4f¹²6s² 167.26 Erbium	$K_{\alpha1}$ = *50.742* $K_{\beta1}$ = *49.773* K_β = *57.806* L_α = 7.181 $L_{\beta1}$ = 8.101 $L_{\beta2}$ = 8.468 $L_{\gamma1}$ = 9.426 $M_{\alpha1}$ = 1.462 69 **Tm** [Xe]4f¹³6s² 168.93421 Thulium	$K_{\alpha1}$ = *52.389* $K_{\beta1}$ = *51.326* K_β = *59.687* L_α = 7.414 $L_{\beta1}$ = 8.402 $L_{\beta2}$ = 8.759 $L_{\gamma1}$ = 9.78 $M_{\alpha1}$ = 1.521 70 **Yb** [Xe]4f¹⁴6s² 173.04 Ytterbium	$K_{\alpha1}$ = *54.07* $K_{\beta1}$ = *52.965* K_β = *61.607* L_α = 7.654 $L_{\beta1}$ = 8.709 $L_{\beta2}$ = 9.049 $L_{\gamma1}$ = 10.143 $M_{\alpha1}$ = 1.581 71 **Lu** [Xe]4f¹⁴5d¹6s² 174.967 Lutetium
$K_{\alpha1}$ = *90.884* $K_{\beta1}$ = *87.861* K_β = *103.31* L_α = 12.65 $L_{\beta1}$ = 15.713 $L_{\beta2}$ = 15.227 $L_{\gamma1}$ = 18.408 89 **Ac** [Rn]6d¹7s² (227.0278) Actinium	$K_{\alpha1}$ = *93.35* $K_{\beta1}$ = *89.953* K_β = *106.077* L_α = 12.966 $L_{\beta1}$ = 16.202 $L_{\beta2}$ = 15.624 $L_{\gamma1}$ = 18.983 $M_{\alpha1}$ = 2.996 90 **Th** [Rn]6d²7s² 232.0381 Thorium	$K_{\alpha1}$ = *93.35* $K_{\beta1}$ = *89.953* K_β = *106.077* L_α = 12.966 $L_{\beta1}$ = 16.202 $L_{\beta2}$ = 15.624 $L_{\gamma1}$ = 18.983 $M_{\alpha1}$ = 2.996 91 **Pa** [Rn]5f²6d¹7s² 231.03588 Protactinium	$K_{\alpha1}$ = *98.439* $K_{\beta1}$ = *94.665* K_β = *111.786* L_α = 13.613 $L_{\beta1}$ = 17.22 $L_{\beta2}$ = 16.428 $L_{\gamma1}$ = 20.167 $M_{\alpha1}$ = 3.171 92 **U** [Rn]5f³6d¹7s² 238.0289 Uranium	93 **Np** [Rn]5f⁴6d¹7s² (244.0482) Neptunium	94 **Pu** [Rn]5f⁶7s² (244.0642) Plutonium	95 **Am** [Rn]5f⁷7s² (243.0614) Americium	96 **Cm** [Rn]5f⁷6d¹7s² (247.0703) Curium	97 **Bk** [Rn]5f⁹7s² (247.0703) Berkellium	$K_{\alpha1}$ 98 **Cf** [Rn]5f¹⁰7s² (251.0796) Californium	99 **Es** [Rn]5f¹¹7s² (252.083) Einsteinium	100 **Fm** [Rn]5f¹²7s² (257.0951) Fermium	101 **Md** [Rn]5f¹³7s² (258.10) Mendelevium	102 **No** [Rn]5f¹⁴7s² (259.1009) Nobelium	103 **Lr** [Rn]5f¹⁴6d¹7s² (262.11) Lawrencium

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1. For lighter elements where emission line doublet energies are sufficiently similar, the mean energy of the doublet is shown.

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