49	In	Indium	(Kr)$4d^{10}5s^2\ 5p$		$^2P_{1/2}$	5.7864
50	Sn	Tin	(Kr)$4d^{10}5s^2\ 5p^2$		$^3P_0$	7.3438
51	Sb	Antimony	(Kr)$4d^{10}5s^2\ 5p^3$		$^4S_{3/2}$	8.64
52	Te	Tellurium	(Kr)$4d^{10}5s^2\ 5p^4$		$^3P_2$	9.0096
53	I	Iodine	(Kr)$4d^{10}5s^2\ 5p^5$		$^2P_{3/2}$	10.4513
54	Xe	Xenon	(Kr)$4d^{10}5s^2\ 5p^6$		$^1S_0$	12.1299
55	Cs	Cesium	(Xe) $6s$		$^2S_{1/2}$	3.8939
56	Ba	Barium	(Xe) $6s^2$		$^1S_0$	5.2117
57	La	Lanthanum	(Xe) $5d\ 6s^2$		$^2D_{3/2}$	5.5770
58	Ce	Cerium	(Xe)$4f\ 5d\ 6s^2$		$^1G_4$	5.5387
59	Pr	Praseodymium	(Xe)$4f^3\ 6s^2$	Lanthanides	$^4I_{9/2}$	5.464
60	Nd	Neodymium	(Xe)$4f^4\ 6s^2$		$^5I_4$	5.5250
61	Pm	Promethium	(Xe)$4f^5\ 6s^2$		$^6H_{5/2}$	5.55
62	Sm	Samarium	(Xe)$4f^6\ 6s^2$		$^7F_0$	5.6437
63	Eu	Europium	(Xe)$4f^7\ 6s^2$		$^8S_{7/2}$	5.6704
64	Gd	Gadolinium	(Xe)$4f^7\ 5d\ 6s^2$		$^9D_2$	6.1500
65	Tb	Terbium	(Xe)$4f^9\ 6s^2$		$^6H_{15/2}$	5.8639
66	Dy	Dysprosium	(Xe)$4f^{10}\ 6s^2$		$^5I_8$	5.9389
67	Ho	Holmium	(Xe)$4f^{11}\ 6s^2$		$^4I_{15/2}$	6.0216
68	Er	Erbium	(Xe)$4f^{12}\ 6s^2$		$^3H_6$	6.1078
69	Tm	Thulium	(Xe)$4f^{13}\ 6s^2$		$^2F_{7/2}$	6.1843
70	Yb	Ytterbium	(Xe)$4f^{14}\ 6s^2$		$^1S_0$	6.2542
71	Lu	Lutetium	(Xe)$4f^{14}5d\ 6s^2$		$^2D_{3/2}$	5.4259
72	Hf	Hafnium	(Xe)$4f^{14}5d^2\ 6s^2$	Transition elements	$^3F_2$	6.8251
73	Ta	Tantalum	(Xe)$4f^{14}5d^3\ 6s^2$		$^4F_{3/2}$	7.89
74	W	Tungsten	(Xe)$4f^{14}5d^4\ 6s^2$		$^5D_0$	7.98
75	Re	Rhenium	(Xe)$4f^{14}5d^5\ 6s^2$		$^6S_{5/2}$	7.88
76	Os	Osmium	(Xe)$4f^{14}5d^6\ 6s^2$		$^5D_4$	8.7
77	Ir	Iridium	(Xe)$4f^{14}5d^7\ 6s^2$		$^4F_{9/2}$	9.1
78	Pt	Platinum	(Xe)$4f^{14}5d^9\ 6s$		$^3D_3$	9.0
79	Au	Gold	(Xe)$4f^{14}5d^{10}6s$		$2S_{1/2}$	9.2257
80	Hg	Mercury	(Xe)$4f^{14}5d^{10}6s^2$		$^1S_0$	10.4375
81	Tl	Thallium	(Xe)$4f^{14}5d^{10}6s^2\ 6p$		$^2P_{1/2}$	6.1083
82	Pb	Lead	(Xe)$4f^{14}5d^{10}6s^2\ 6p^2$		$^3P_0$	7.4167
83	Bi	Bismuth	(Xe)$4f^{14}5d^{10}6s^2\ 6p^3$		$^4S_{3/2}$	7.289
84	Po	Polonium	(Xe)$4f^{14}5d^{10}6s^2\ 6p^4$		$^3P_2$	8.4167
85	At	Astatine	(Xe)$4f^{14}5d^{10}6s^2\ 6p^5$		$^2P_{3/2}$	
86	Rn	Radon	(Xe)$4f^{14}5d^{10}6s^2\ 6p^6$		$^1S_0$	10.7485
87	Fr	Francium	(Rn) $7s$		$^2S_{1/2}$	
88	Ra	Radium	(Rn) $7s^2$		$^1S_0$	5.2789
89	Ac	Actinium	(Rn) $6d\ 7s^2$		$^2D_{3/2}$	5.17
90	Th	Thorium	(Rn) $6d^2\ 7s^2$		$^3F_2$	6.08
91	Pa	Protactinium	(Rn)$5f^2\ 6d\ 7s^2$	Actinides	$^4K_{11/2}$	5.89
92	U	Uranium	(Rn)$5f^3\ 6d\ 7s^2$		$^5L_6$	6.1941
93	Np	Neptunium	(Rn)$5f^4\ 6d\ 7s^2$		$^6L_{11/2}$	6.2657
94	Pu	Plutonium	(Rn)$5f^6\ 7s^2$		$^7F_0$	6.06
95	Am	Americium	(Rn)$5f^7\ 7s^2$		$^8S_{7/2}$	5.993
96	Cm	Curium	(Rn)$5f^7\ 6d\ 7s^2$		$^9D_2$	6.02
97	Bk	Berkelium	(Rn)$5f^9\ 7s^2$		$^6H_{15/2}$	6.23
98	Cf	Californium	(Rn)$5f^{10}\ 7s^2$		$^5I_8$	6.30
99	Es	Einsteinium	(Rn)$5f^{11}\ 7s^2$		$^4I_{15/2}$	6.42
100	Fm	Fermium	(Rn)$5f^{12}\ 7s^2$		$^3H_6$	6.50
101	Md	Mendelevium	(Rn)$5f^{13}\ 7s^2$		$^2F_{7/2}$	6.58
102	No	Nobelium	(Rn)$5f^{14}\ 7s^2$		$^1S_0$	6.65
103	Lr	Lawrencium	(Rn)$5f^{14}6d\ 7s^2$?		$^2D_{3/2}$?	
104	Rf	Rutherfordium	(Rn)$5f^{14}6d^2\ 7s^2$?			