

Extended Periodic Table

damon hawkins

v. 1.3

notes

- as of yet, elements 119-173 have no official name as they have not been synthesised or found in nature before 25/3/2023.
- for now they have been given a provisional name and symbol. elements 167-170 electron configurations are [Og]... and 171-172 [Og] 5g¹⁸...
- 1 kJ/mol ≈ 96.485eV.
- diatomic elements are highlighted in a darker colour.
- electron configurations for elements 109+ are predicted.
- all elements above 118 are completely theoretical, may also be incomplete, and ends at 173 as the dirac equation presents problems above that point.
- elements 121+ electronegativity are not 0.00 but haven't been calculated yet.

oxidation states (predicted) most common

atomic mass, m (predicted/most stable mass number)

1st ionisation energy, IE in kJ/mol

elementary symbol

element name

electron configuration

phase at STP (predicted)

synthetic

radioactive

electronegativity, X (predicted) most common pauling scale

atomic number, Z

- alkali metal
- alkaline metal
- post transition metals
- transition metals
- inner transition metals
- metalloids
- non metals
- halogens
- noble gases
- lavoisoids

[25] (3)	[26] (4)	[27] (5)	[28] (6)	[29] (7)	[30] (8)	[31] (9)	[32] (10)	[33] (11)	[34] (12)	[35] (13)	[36] (14)	[37] (15)	[38] (16)
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No
Du	Sh	Hb	Da	Bo	Fa	Av	So	Hz	Wt	Dr	Lw	Vh	Hk

[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]
Ls	Dm	Ms	Tu	Dt	Mw	Pk	By	Bz	Fn	Dw	To	Pl	Ah	My	Cv	Fy	Cw	A	Ed	Ab	Bu
Lavoisium [?]	Democritium [?]	Moseium [?]	Teslium [?]	Daltonium [?]	Maxwellium [?]	Planckium [?]	Boyleium [?]	Berzelium [?]	Franklinium [?]	Darwinium [?]	Thomsonium [?]	Paulium [?]	Arrhenium [?]	Meyerium [?]	Cavendishium [?]	Feynmanium [?]	Chadwickium [?]	Astonium [?]	Edisonium [?]	Abegium [?]	Butterovium [?]

Scandide series	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn
Yttride series	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd
Lutetide series	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg
Lewrencide series	Lr	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn
Kelvinide series	Ke	Ap	Vw	Hu	Fh	Ma	Kp	Gb	Bq	Hi

Boride series	B	C	N	O	F	Ne
Alumidine series	Al	Si	P	S	Cl	Ar
Gallide series	Ga	Ge	As	Se	Br	Kr
Indide series	In	Sn	Sb	Te	I	Xe
Thallide series	Tl	Pb	Bi	Po	At	Rn
Nihonide series	Nh	Fl	Mc	Lv	Ts	Og
Kirchoffide series	Kf	Bn	J	Hm	Bs	Rs

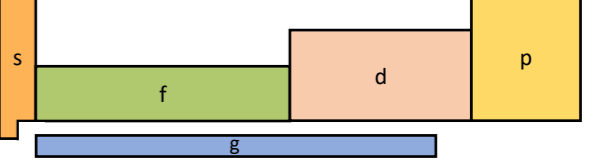
Hydrogen group (1)	Hydrogen (g)	
Alkali Metals		
Beryllium group (2)	Beryllium (s)	
Alkaline Metals		
Lithide series (2)	Li	Be
Sodide series (3)	Na	Mg
Potasside series (4)	K	Ca
Rubidide series (5)	Rb	Sr
Caeside series (6)	Cs	Ba
Francide series (7)	Fr	Ra
Newtonide series (8)	Nw	Gl
Messieride series (9)	Me	

Helium group (18)	Helium (g)
Noble Gases	

subatomic constituents

mass, m _{rest}	938.27	939.57	0.511
charge, q _{mc}	1.602	0	-1.602
mass, m _{rel}	1.67	1.65	9.11
spin	1/2	1/2	1/2
	p	n	e ⁻
	Proton	Neutron	Electron

electron configuration blocks



Periodic Table

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V.1.3

- alkali metal
- alkaline metal
- post transition metal
- transition metals
- inner transition metals
- metalloids
- non metals
- halogens
- noble gases

oxidation states (predicted) most common

electronegativity, χ (Pauling scale)

atomic number, Z

atomic mass, m (predicted/most stable mass number)

1st ionisation energy, IE (in kJ/mol)

element symbol

element name

electron configuration

phase at STP (predicted)

synthetic radioactive

Hydrogen group (1)	1	Hydrogen (g)	1.00794 1312.0	2.20	1
Beryllium group (2)	2	Beryllium (s)	9.0121831 899.5	1.57	4
Lithide series	2	Li	6.941 520.2	0.98	3
Sodide series	3	Na	22.989769 495.8	0.93	11
Potasside series	4	K	39.0983 418.8	0.82	19
Rubidide series	5	Rb	85.4678 403	0.82	37
Caeside series	6	Cs	132.90545 375.7	0.79	55
Francide series	7	Fr	[223] 393	0.79	87

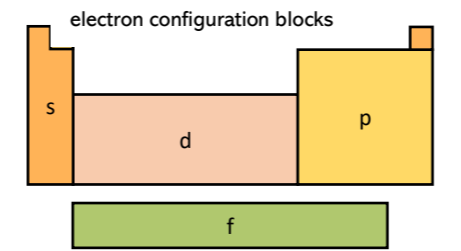
Scandium group (17)	3	Scandium (s)	44.955907 633.1	1.36	21
Titanium group (18)	4	Ti	47.867 658.8	1.54	22
Vanadium group (19)	5	V	50.9415 650.9	1.63	23
Chromium group (20)	6	Cr	51.9961 717.3	1.66	24
Manganese group (21)	7	Mn	54.938043 717.3	1.55	25
Iron group (22)	8	Fe	55.845 760.4	1.83	26
Cobalt group (23)	9	Co	58.933194 760.4	1.88	27
Nickel group (24)	10	Ni	58.6934 760.4	1.91	28
Copper group (25)	11	Cu	63.546 760.4	1.90	29
Zinc group (26)	12	Zn	65.38 760.4	1.65	30

Boron group (13)	5	Boron (s)	10.811 800.6	2.04	5
Carbon group (14)	6	Carbon (s)	12.0107 1086.5	2.55	6
Nitrogen group (15)	7	Nitrogen (g)	14.0067 1402.3	3.04	7
Oxygen group (16)	8	Oxygen (g)	15.9994 1313.9	3.44	8
Fluorine group (17)	9	Fluorine (g)	18.998403 1681	3.98	9
Helium group (18)	10	Helium (g)	4.002602 2372.3	0.00	2

Scandide series	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn
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Indide series	In	Sn	Sb	Te	I	Xe
Thallide series	Tl	Pb	Bi	Po	At	Rn
Nihonide series	Nh	Fl	Mc	Lv	Ts	Og

Lanthanide series	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb
Actinide series	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No



- notes
- 1 kJ/mol ≈ 96.485eV.
 - diatomic elements are highlighted in a darker colour.
 - electron configurations for elements 109+ are predicted.

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Hydrogen group Alkali Metals group 1	Beryllium group Alkaline Metals group 2																	Boron group Licoalogenes group 13 [49]	Carbon group Crystallogens group 14 [50]	Nitrogen group Pnicogens group 15 [51]	Oxygen group Chalcogens group 16 [52]	Fluorine group Halogens group 17 [53]	Helium group Noble Gases group 18 [54]	orbitals											
period 1	Hydrogen series 1																	Scandium group [39]	Titanium group [40]	Vanadium group [41]	Chromium group [42]	Manganese group [43]	Iron group [44]	Cobalt group [45]	Nickel group [46]	Copper group [47]	Zinc group [48]	Boride series	Aluminide series	Gallide series	Indide series	Thallide series	Nihonide series	Kirchoffide series	Helium (g) He 1s
period 2	Lithide series 2																	Scandide series	Yttride series	Lutetide series	Lewrencide series	Kelvinide series	Alumide series	Indide series	Thallide series	Nihonide series	Kirchoffide series	Neon (g) Ne 2s 2p							
period 3	Sodide series 3																	Scandide series	Yttride series	Lutetide series	Lewrencide series	Kelvinide series	Alumide series	Indide series	Thallide series	Nihonide series	Kirchoffide series	Argon (g) Ar 3s 3p							
period 4	Potasside series 4																	Scandide series	Yttride series	Lutetide series	Lewrencide series	Kelvinide series	Alumide series	Indide series	Thallide series	Nihonide series	Kirchoffide series	Krypton (g) Kr 4s 3d 4p							
period 5	Rubide series 5																	Scandide series	Yttride series	Lutetide series	Lewrencide series	Kelvinide series	Alumide series	Indide series	Thallide series	Nihonide series	Kirchoffide series	Xenon (g) Xe 5s 4d 5p							
period 6	Caeside series 6	Lanthanide series																	Scandide series	Yttride series	Lutetide series	Lewrencide series	Kelvinide series	Alumide series	Indide series	Thallide series	Nihonide series	Kirchoffide series	Radon (g) Rn 6s 5d 6p						
period 7	Francide series 7	Actinide series																	Scandide series	Yttride series	Lutetide series	Lewrencide series	Kelvinide series	Alumide series	Indide series	Thallide series	Nihonide series	Kirchoffide series	Oganesson (g) Og 7s 6d 7p						
period 8	Newtonide series 8	Dumaside series																	Scandide series	Yttride series	Lutetide series	Lewrencide series	Kelvinide series	Alumide series	Indide series	Thallide series	Nihonide series	Kirchoffide series							
period 9	Messieride series 9	Lavoiside series																	Scandide series	Yttride series	Lutetide series	Lewrencide series	Kelvinide series	Alumide series	Indide series	Thallide series	Nihonide series	Kirchoffide series							

oxidation states (predicted) most common

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atomic mass, m (predicted/most stable mass number)

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element symbol

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electron configuration

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radioactive

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alkaline metal

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metalloids

non metals

halogens

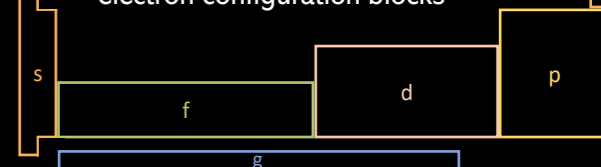
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lavoisoids

subatomic constituents

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electron configuration blocks



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Hydrogen group (1) Alkali Metals		Beryllium group (2) Alkaline Metals		Transition Metals										Carbon group (14) Crystallogens					Nitrogen group (15) Pnictogens	Oxygen group (16) Chalcogens	Fluorine group (17) Halogens	Helium group (18) Noble Gases											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																
Hydrogen (g) 1s ¹	Helium (g) 1s ²	Lithium (s) [He] 2s ¹	Beryllium (s) [He] 2s ²	Scandium (s) [Ar] 3d ¹ 4s ²	Titanium (s) [Ar] 3d ² 4s ²	Vanadium (s) [Ar] 3d ³ 4s ²	Chromium (s) [Ar] 3d ⁵ 4s ¹	Manganese (s) [Ar] 3d ⁵ 4s ²	Iron (s) [Ar] 3d ⁶ 4s ²	Cobalt (s) [Ar] 3d ⁷ 4s ²	Nickel (s) [Ar] 3d ⁸ 4s ²	Copper (s) [Ar] 3d ¹⁰ 4s ¹	Zinc (s) [Ar] 3d ¹⁰ 4s ²	Boron (s) [He] 2s ² 2p ¹	Carbon (s) [He] 2s ² 2p ²	Nitrogen (g) [He] 2s ² 2p ³	Oxygen (g) [He] 2s ² 2p ⁴	Fluorine (g) [He] 2s ² 2p ⁵	Neon (g) [He] 2s ² 2p ⁶														
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Sodium (s) [Ne] 3s ¹	Magnesium (s) [Ne] 3s ²	Scandide series	Yttride series	Lutetide series	Lanthanide series	Actinide series	Scandium (s) [Ar] 3d ¹ 4s ²	Titanium (s) [Ar] 3d ² 4s ²	Vanadium (s) [Ar] 3d ³ 4s ²	Chromium (s) [Ar] 3d ⁵ 4s ¹	Manganese (s) [Ar] 3d ⁵ 4s ²	Iron (s) [Ar] 3d ⁶ 4s ²	Cobalt (s) [Ar] 3d ⁷ 4s ²	Nickel (s) [Ar] 3d ⁸ 4s ²	Copper (s) [Ar] 3d ¹⁰ 4s ¹	Zinc (s) [Ar] 3d ¹⁰ 4s ²	Gallium (s) [Ar] 3d ¹⁰ 4s ² 4p ¹	Germanium (s) [Ar] 3d ¹⁰ 4s ² 4p ²	Arsenic (s) [Ar] 3d ¹⁰ 4s ² 4p ³	Selenium (s) [Ar] 3d ¹⁰ 4s ² 4p ⁴	Bromine (l) [Ar] 3d ¹⁰ 4s ² 4p ⁵	Krypton (g) [Ar] 3d ¹⁰ 4s ² 4p ⁶											
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
Potassium (s) [Ar] 4s ¹	Calcium (s) [Ar] 4s ²	Scandium (s) [Ar] 3d ¹ 4s ²	Yttrium (s) [Kr] 4d ¹ 5s ²	Lutetium (s) [Xe] 4f ¹⁴ 5d ¹ 6s ²	Lanthanum (s) [Xe] 4f ⁰ 5d ¹ 6s ²	Actinium (s) [Rn] 5f ⁰ 6d ¹ 7s ²	Scandium (s) [Ar] 3d ¹ 4s ²	Titanium (s) [Ar] 3d ² 4s ²	Vanadium (s) [Ar] 3d ³ 4s ²	Chromium (s) [Ar] 3d ⁵ 4s ¹	Manganese (s) [Ar] 3d ⁵ 4s ²	Iron (s) [Ar] 3d ⁶ 4s ²	Cobalt (s) [Ar] 3d ⁷ 4s ²	Nickel (s) [Ar] 3d ⁸ 4s ²	Copper (s) [Ar] 3d ¹⁰ 4s ¹	Zinc (s) [Ar] 3d ¹⁰ 4s ²	Gallium (s) [Ar] 3d ¹⁰ 4s ² 4p ¹	Germanium (s) [Ar] 3d ¹⁰ 4s ² 4p ²	Arsenic (s) [Ar] 3d ¹⁰ 4s ² 4p ³	Selenium (s) [Ar] 3d ¹⁰ 4s ² 4p ⁴	Bromine (l) [Ar] 3d ¹⁰ 4s ² 4p ⁵	Krypton (g) [Ar] 3d ¹⁰ 4s ² 4p ⁶											
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
Rubidium (s) [Kr] 5s ¹	Strontium (s) [Kr] 5s ²	Scandium (s) [Ar] 3d ¹ 4s ²	Yttrium (s) [Kr] 4d ¹ 5s ²	Lutetium (s) [Xe] 4f ¹⁴ 5d ¹ 6s ²	Lanthanum (s) [Xe] 4f ⁰ 5d ¹ 6s ²	Actinium (s) [Rn] 5f ⁰ 6d ¹ 7s ²	Scandium (s) [Ar] 3d ¹ 4s ²	Titanium (s) [Ar] 3d ² 4s ²	Vanadium (s) [Ar] 3d ³ 4s ²	Chromium (s) [Ar] 3d ⁵ 4s ¹	Manganese (s) [Ar] 3d ⁵ 4s ²	Iron (s) [Ar] 3d ⁶ 4s ²	Cobalt (s) [Ar] 3d ⁷ 4s ²	Nickel (s) [Ar] 3d ⁸ 4s ²	Copper (s) [Ar] 3d ¹⁰ 4s ¹	Zinc (s) [Ar] 3d ¹⁰ 4s ²	Gallium (s) [Ar] 3d ¹⁰ 4s ² 4p ¹	Germanium (s) [Ar] 3d ¹⁰ 4s ² 4p ²	Arsenic (s) [Ar] 3d ¹⁰ 4s ² 4p ³	Selenium (s) [Ar] 3d ¹⁰ 4s ² 4p ⁴	Bromine (l) [Ar] 3d ¹⁰ 4s ² 4p ⁵	Krypton (g) [Ar] 3d ¹⁰ 4s ² 4p ⁶											
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36			
Cesium (s) [Xe] 6s ¹	Barium (s) [Xe] 6s ²	Scandium (s) [Ar] 3d ¹ 4s ²	Yttrium (s) [Kr] 4d ¹ 5s ²	Lutetium (s) [Xe] 4f ¹⁴ 5d ¹ 6s ²	Lanthanum (s) [Xe] 4f ⁰ 5d ¹ 6s ²	Actinium (s) [Rn] 5f ⁰ 6d ¹ 7s ²	Scandium (s) [Ar] 3d ¹ 4s ²	Titanium (s) [Ar] 3d ² 4s ²	Vanadium (s) [Ar] 3d ³ 4s ²	Chromium (s) [Ar] 3d ⁵ 4s ¹	Manganese (s) [Ar] 3d ⁵ 4s ²	Iron (s) [Ar] 3d ⁶ 4s ²	Cobalt (s) [Ar] 3d ⁷ 4s ²	Nickel (s) [Ar] 3d ⁸ 4s ²	Copper (s) [Ar] 3d ¹⁰ 4s ¹	Zinc (s) [Ar] 3d ¹⁰ 4s ²	Gallium (s) [Ar] 3d ¹⁰ 4s ² 4p ¹	Germanium (s) [Ar] 3d ¹⁰ 4s ² 4p ²	Arsenic (s) [Ar] 3d ¹⁰ 4s ² 4p ³	Selenium (s) [Ar] 3d ¹⁰ 4s ² 4p ⁴	Bromine (l) [Ar] 3d ¹⁰ 4s ² 4p ⁵	Krypton (g) [Ar] 3d ¹⁰ 4s ² 4p ⁶											
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
Francium (s) [Rn] 7s ¹	Radium (s) [Rn] 7s ²	Scandium (s) [Ar] 3d ¹ 4s ²	Yttrium (s) [Kr] 4d ¹ 5s ²	Lutetium (s) [Xe] 4f ¹⁴ 5d ¹ 6s ²	Lanthanum (s) [Xe] 4f ⁰ 5d ¹ 6s ²	Actinium (s) [Rn] 5f ⁰ 6d ¹ 7s ²	Scandium (s) [Ar] 3d ¹ 4s ²	Titanium (s) [Ar] 3d ² 4s ²	Vanadium (s) [Ar] 3d ³ 4s ²	Chromium (s) [Ar] 3d ⁵ 4s ¹	Manganese (s) [Ar] 3d ⁵ 4s ²	Iron (s) [Ar] 3d ⁶ 4s ²	Cobalt (s) [Ar] 3d ⁷ 4s ²	Nickel (s) [Ar] 3d ⁸ 4s ²	Copper (s) [Ar] 3d ¹⁰ 4s ¹	Zinc (s) [Ar] 3d ¹⁰ 4s ²	Gallium (s) [Ar] 3d ¹⁰ 4s ² 4p ¹	Germanium (s) [Ar] 3d ¹⁰ 4s ² 4p ²	Arsenic (s) [Ar] 3d ¹⁰ 4s ² 4p ³	Selenium (s) [Ar] 3d ¹⁰ 4s ² 4p ⁴	Bromine (l) [Ar] 3d ¹⁰ 4s ² 4p ⁵	Krypton (g) [Ar] 3d ¹⁰ 4s ² 4p ⁶											

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atomic mass, m (predicted) most stable mass number

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radioactive

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26.981538 57.5 Aluminium (s) [Ne] 3s ² 3p ¹	28.0855 786.5 Silicon (s) [Ne] 3s ² 3p ²	30.973762 1011.8 Phosphorus (s) [Ne] 3s ² 3p ³	32.065 959.6 Sulphur (s) [Ne] 3s ² 3p ⁴	35.453 1215.2 Chlorine (g) [Ne] 3s ² 3p ⁵	39.792 1520.6 Argon (g) [Ne] 3s ² 3p ⁶
69.723 578.3 Gallium (s) [Ar] 3d ¹⁰ 4s ¹	72.630 762 Germanium (s) [Ar] 3d ¹⁰ 4s ² 4p ²	74.921595 9470.0 Arsenic (s) [Ar] 3d ¹⁰ 4s ² 4p ³	78.971 941.0 Selenium (s) [Ar] 3d ¹⁰ 4s ² 4p ⁴	79.904 1139.9 Bromine (l) [Ar] 3d ¹⁰ 4s ² 4p ⁵	83.798 1350.8 Krypton (g) [Ar] 3d ¹⁰ 4s ² 4p ⁶
114.818 588.4 Indium (s) [Kr] 4d ¹⁰ 5s ¹	118.710 731.0 Tin (s) [Kr] 4d ¹⁰ 5s ²	121.760 731.0 Antimony (s) [Kr] 4d ¹⁰ 5s ² 5p ³	127.60 834 Tellurium (s) [Kr] 4d ¹⁰ 5s ² 5p ⁴	126.90447 1008.4 Iodine (s) [Kr] 4d ¹⁰ 5s ² 5p ⁵	131.293 1170.4 Xenon (g) [Kr] 4d ¹⁰ 5s ² 5p ⁶
204.3883 589.4 Thallium (s) [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹	207.04 715.6 Lead (s) [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ²	208.98040 703 Bismuth (s) [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ³	[209] 812.1 Polonium (s) [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁴	[210] 899.003 Astatine (s) [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁵	[222] 860 Radon (g) [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁶
[286] 704.9 Nihonium (s) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ¹	[289] 832.2 Flerovium (l) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ²	[290] 538.3 Moscovium (s) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ³	[293] 663.9 Livermorium (s) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁴	[294] 742.9 Tennessine (s) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁵	[294] 860 Oganesson (s) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁶

Antihydrogen series

notes

- 1 kJ/mol ≈ 96.485 eV.
- diatomic elements are highlighted in a darker colour.
- electron configurations for elements 109+ are predicted.

