Cause of name of transition elements

Transitional behaviour between s and p block elements

Transition elements in terms of electronic configuration

Elements of partially filled d orbitals

General expression for outer electronic configuration for transition elements

$$(n-1)d^{1-10}s^{1-2}$$

Cause of deviation from general electronic configuration in some transition elements

- · Low energy gap between d and s orbital
- Stability of half and full filled states

List of shells in transition metals where valance electrons are present

- Outer most
- Second outermost

2 shells have valance electrons in transition metals

Number of division of transition metals in terms of series

4

List of division of transition metals in terms of series

- First transition series
- · Second transition series
- Third transition series
- · Fourth transition series

Term for first transition series in transition elements
3d series
Term for second transition series in transition elements
4d series
Term for third transition series in transition elements
5d series
Term for fourth transition series in transition elements
6d series
Period of first transition series in transition metals
4th period
Period of second transition series in transition metals
5th period
Period of third transition series in transition metals
6th period
Period of fourth transition series in transition metals
7th period
Atomic number of scandium
21

Atomic number of Zinc
30
Atomic number of Yttrium
39
Atomic number of Cadmium
Atomic number of Cauman
48
Atomic number of Lanthanum
57
Atomic number of Mercury
80
Atomic number of Halfium
72
Atomic number of Actinium
89
Atomic number of Rutherfordium
104
Elemental range of first transition series in transition matels
Elemental range of first transition series in transition metals
Scandium to Zinc

Elemental range of second transition series in transition metals

Yttrium to Cadmium

Elemental range of third transition series in transition metals

Lanthanum and Halfium to Mercury

Elemental range of fourth transition series in transition metals

Actinium to Rutherfordium

Cause of exclusion of zinc, cadmium and mercury from transition elements

Completely filled d orbitals