

Perioden	Hauptgruppen	
	1	2
	I	II

Periodensystem der Elemente (PSE) im Schalenmodell von BOHR

Hauptgruppen					
13	14	15	16	17	18
III	IV	V	VI	VII	VIII

Metall

Halbmetall

Halbleiter

Nichtmetall

künstlich

16 ← Nummer der Gruppe nach IUPAC

VI ← Hauptgruppen-Nummer














S ← Schalen mit Elektronen





















































S ← Elementsymbol (Kern mit Protonen)






















→ "AußenElektronen" (Elektronenverteilung der äußersten Schale)

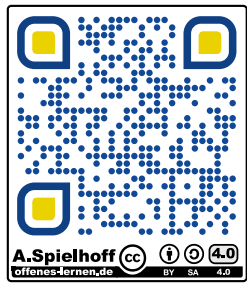
16 ← Ordnungszahl (Anzahl der Protonen und auch der Elektronen im neutralen Atom)

































Schwefel ← deutscher Name nach IUPAC

1.	<div style="text-align: center;">  H 1 Wasserstoff </div>	
2.	<div style="text-align: center;">  Li 3 Lithium </div>	<div style="text-align: center;">  Be 4 Beryllium </div>
3.	<div style="text-align: center;">  Na 11 Natrium </div>	<div style="text-align: center;">  Mg 12 Magnesium </div>
4.	<div style="text-align: center;">  K 19 Kalium </div>	<div style="text-align: center;">  Ca 20 Calcium </div>
5.	<div style="text-align: center;">  Rb 37 Rubidium </div>	<div style="text-align: center;">  Sr 38 Strontium </div>
6.	<div style="text-align: center;">  Cs 55 Cäsium </div>	<div style="text-align: center;">  Ba 56 Barium </div>
7.	<div style="text-align: center;">  Fr 87 Francium </div>	<div style="text-align: center;">  Ra 88 Radium </div>

Nebengruppen											
3	4	5	6	7	8	9	10	11	12		
III	IV	V	VI	VII	VIII	VIII	VIII	I	II		
<div style="text-align: center;">  Sc 21 Scandium </div>	<div style="text-align: center;">  Ti 22 Titan </div>	<div style="text-align: center;">  V 23 Vanadium </div>	<div style="text-align: center;">  Cr 24 Chrom </div>	<div style="text-align: center;">  Mn 25 Mangan </div>	<div style="text-align: center;">  Fe 26 Eisen </div>	<div style="text-align: center;">  Co 27 Kobalt </div>	<div style="text-align: center;">  Ni 28 Nickel </div>	<div style="text-align: center;">  Cu 29 Kupfer </div>	<div style="text-align: center;">  Zn 30 Zink </div>	<div style="text-align: center;">  Ga 31 Gallium </div>	<div style="text-align: center;">  Ge 32 Germanium </div>
<div style="text-align: center;">  Y 39 Yttrium </div>	<div style="text-align: center;">  Zr 40 Zirkon </div>	<div style="text-align: center;">  Nb 41 Niob </div>	<div style="text-align: center;">  Mo 42 Molybdän </div>	<div style="text-align: center;">  Tc 43 Technetium </div>	<div style="text-align: center;">  Ru 44 Ruthenium </div>	<div style="text-align: center;">  Rh 45 Rhodium </div>	<div style="text-align: center;">  Pd 46 Palladium </div>	<div style="text-align: center;">  Ag 47 Silber </div>	<div style="text-align: center;">  Cd 48 Cadmium </div>	<div style="text-align: center;">  In 49 Indium </div>	<div style="text-align: center;">  Sn 50 Zinn </div>
<div style="text-align: center;">  Lantheta- noide 57 - 71 </div>	<div style="text-align: center;">  Hf 72 Hafnium </div>	<div style="text-align: center;">  Ta 73 Tantal </div>	<div style="text-align: center;">  W 74 Wolfram </div>	<div style="text-align: center;">  Re 75 Rhenium </div>	<div style="text-align: center;">  Os 76 Osmium </div>	<div style="text-align: center;">  Ir 77 Iridium </div>	<div style="text-align: center;">  Pt 78 Platin </div>	<div style="text-align: center;">  Au 79 Gold </div>	<div style="text-align: center;">  Hg 80 Quecksilber </div>	<div style="text-align: center;">  Tl 81 Thallium </div>	<div style="text-align: center;">  Pb 82 Blei </div>
<div style="text-align: center;">  Acti- noide 89 - 103 </div>	<div style="text-align: center;">  104 Rutherfordium </div>	<div style="text-align: center;">  105 Dubnium </div>	<div style="text-align: center;">  106 Seaborgium </div>	<div style="text-align: center;">  107 Bohrium </div>	<div style="text-align: center;">  108 Hassium </div>	<div style="text-align: center;">  109 Meitnerium </div>	<div style="text-align: center;">  110 Darmstadtium </div>	<div style="text-align: center;">  111 Roentgenium </div>	<div style="text-align: center;">  112 Copernicium </div>	<div style="text-align: center;">  113 Nihonium </div>	<div style="text-align: center;">  114 Flerovium </div>
<div style="text-align: center;">  115 Moscovium </div>	<div style="text-align: center;">  116 Livermorium </div>	<div style="text-align: center;">  117 Tennessine </div>	<div style="text-align: center;">  118 Oganesson </div>								

<div style="text-align: center;">  He 2 Helium </div>					
<div style="text-align: center;">  B 5 Bor </div>	<div style="text-align: center;">  C 6 Kohlenstoff </div>	<div style="text-align: center;">  N 7 Stickstoff </div>	<div style="text-align: center;">  O 8 Sauerstoff </div>	<div style="text-align: center;">  F 9 Fluor </div>	<div style="text-align: center;">  Ne 10 Neon </div>
<div style="text-align: center;">  Al 13 Aluminium </div>	<div style="text-align: center;">  Si 14 Silicium </div>	<div style="text-align: center;">  P 15 Phosphor </div>	<div style="text-align: center;">  S 16 Schwefel </div>	<div style="text-align: center;">  Cl 17 Chlor </div>	<div style="text-align: center;">  Ar 18 Argon </div>
<div style="text-align: center;">  As 33 Arsen </div>	<div style="text-align: center;">  Se 34 Selen </div>	<div style="text-align: center;">  Br 35 Brom </div>	<div style="text-align: center;">  Kr 36 Krypton </div>		
<div style="text-align: center;">  Sb 51 Antimon </div>	<div style="text-align: center;">  Te 52 Tellur </div>	<div style="text-align: center;">  I 53 Iod </div>	<div style="text-align: center;">  Xe 54 Xenon </div>		



<div style="text-align: center;">  Lantheta- noide 57 - 71 </div>	<div style="text-align: center;">  La 57 Lanthan </div>	<div style="text-align: center;">  Ce 58 Cer </div>	<div style="text-align: center;">  Pr 59 Praseodym </div>	<div style="text-align: center;">  Nd 60 Neodym </div>	<div style="text-align: center;">  Pm 61 Promethium </div>	<div style="text-align: center;">  Sm 62 Samarium </div>	<div style="text-align: center;">  Eu 63 Europium </div>	<div style="text-align: center;">  Gd 64 Gadalinium </div>	<div style="text-align: center;">  Tb 65 Terbium </div>	<div style="text-align: center;">  Dy 66 Dysprosium </div>	<div style="text-align: center;">  Ho 67 Holmium </div>	<div style="text-align: center;">  Er 68 Erbium </div>	<div style="text-align: center;">  Tm 69 Thullium </div>	<div style="text-align: center;">  Yb 70 Ytterbium </div>	<div style="text-align: center;">  Lu 71 Lutetium </div>
<div style="text-align: center;">  Acti- noide 89 - 103 </div>	<div style="text-align: center;">  Ac 89 Actinium </div>	<div style="text-align: center;">  Th 90 Thorium </div>	<div style="text-align: center;">  Pa 91 Protactinium </div>	<div style="text-align: center;">  U 92 Uran </div>	<div style="text-align: center;">  Np 93 Neptunium </div>	<div style="text-align: center;">  Pu 94 Plutonium </div>	<div style="text-align: center;">  Am 95 Americium </div>	<div style="text-align: center;">  Cm 96 Curium </div>	<div style="text-align: center;">  Bk 97 Berkelium </div>	<div style="text-align: center;">  Cf 98 Californium </div>	<div style="text-align: center;">  Es 99 Einsteinium </div>	<div style="text-align: center;">  Fm 100 Fermium </div>	<div style="text-align: center;">  Md 101 Mendelevium </div>	<div style="text-align: center;">  No 102 Nobelium </div>	<div style="text-align: center;">  Lr 103 Lawrencium </div>

Alle mit * gekennzeichneten Atome können auch in anderer Form vorkommen. Die hier dargestellte Form ist die häufigste Oxidationszahl.