

# THE PERIODIC TABLE OF ELEMENTS

# THE PERIODIC TABLE OF ELEMENTS

1

1.008

H

Hydrogen

2

4.003

He

Helium

3

6.941

Li

Lithium

4

9.012

Be

Beryllium

5

6.941

B

Boron

6

12.011

C

Carbon

7

14.007

N

Nitrogen

8

16.000

O

Oxygen

9

18.998

F

Fluorine

10

20.180

Ne

Neon

11

22.990

Na

Sodium

12

24.305

Mg

Magnesium

13

26.982

Al

Aluminum

14

28.086

Si

Silicon

15

30.974

P

Phosphorus

16

32.06

S

Sulfur

17

35.45

Cl

Chlorine

18

39.96

Ar

Argon

19

39.098

K

Potassium

20

40.078

Ca

Calcium

21

44.956

Sc

Scandium

22

47.88

Ti

Titanium

23

50.942

V

Vanadium

24

51.996

Cr

Chromium

25

54.938

Mn

Manganese

26

55.845

Fe

Iron

27

58.933

Co

Cobalt

28

58.933

Ni

Nickel

29

63.546

Cu

Copper

30

65.38

Zn

Zinc

31

69.723

Ga

Gallium

32

72.64

Ge

Germanium

33

74.922

As

Arsenic

34

78.971

Se

Selenium

35

79.904

Br

Bromine

36

83.80

Kr

Krypton

37

85.468

Rb

Rubidium

38

87.62

Sr

Strontium

39

88.906

Y

Yttrium

40

91.224

Zr

Zirconium

41

92.906

Nb

Niobium

42

95.94

Mo

Molybdenum

43

97.907

Tc

Technetium

44

101.07

Ru

Ruthenium

45

102.906

Rh

Rhodium

46

106.42

Pd

Palladium

47

107.868

Ag

Silver

48

112.411

Cd

Cadmium

49

114.818

In

Indium

50

118.710

Sn

Tin

51

121.757

Sb

Antimony

52

127.6

Te

Tellurium

53

126.905

I

Iodine

54

131.29

Xe

Xenon

55

132.905

Cs

Cesium

56

137.327

Ba

Barium

57-71

no data

Lanthanide Series

72

178.48

Hf

Hafnium

73

180.948

Ta

Tantalum

74

183.84

W

Tungsten

75

186.207

Re

Rhenium

76

186.207

Os

Osmium

77

186.207

Ir

Iridium

78

195.084

Pt

Platinum

79

196.967

Au

Gold

80

200.59

Hg

Mercury

81

204.38

Tl

Thallium

82

207.2

Pb

Lead

83

208.98

Bi

Bismuth

84

209

Po

Polonium

85

209

At

Astatine

86

222

Rn

Radon

87

223

Fr

Francium

88

226

Ra

Radium

89-103

no data

Actinide Series

104

261

Rf

Rutherfordium

105

262

Db

Dubnium

106

263

Sg

Seaborgium

107

269

Bh

Bohrium

108

277

Hs

Hassium

109

277

Mt

Meitnerium

110

277

Ds

Darmstadtium

111

277

Rg

Roentgenium

112

277

Cn

Copernicium

113

284

Nh

Nihonium

114

284

Fl

Flerovium

115

284

Mc

Moscovium

116

284

Lv

Livermorium

117

284

Ts

Tennessine

118

284

Og

Oganesson

Alkali Metals

Alkaline Earth Metals

Transition Metals

Other Metals

Metalloids

Non-metals

Halogens

Noble Gases

Lanthanides

Actinides

Atomic Number →

Symbol →

Name →

1

1.008

H

Hydrogen

Average Atomic Mass

Atomic Number → 1 1.008 ← Average Atomic Mass

Symbol → **H**

Name → Hydrogen

- Alkali Metals
- Alkaline Earth Metals
- Transition Metals
- Other Metals
- Metalloids
- Non-metals
- Halogens
- Noble Gases
- Lanthanides
- Actinides

• Lanthanide Series

•• Actinide Series

<b>La</b> Lanthanum	<b>Ce</b> Cerium	<b>Pr</b> Praseodymium	<b>Nd</b> Neodymium	<b>Pm</b> Promethium	<b>Sm</b> Samarium	<b>Eu</b> Europium	<b>Gd</b> Gadolinium	<b>Tb</b> Terbium	<b>Dy</b> Dysprosium	<b>Ho</b> Holmium	<b>Er</b> Erbium	<b>Tm</b> Thulium	<b>Yb</b> Ytterbium	<b>Lu</b> Lutetium
<b>Ac</b> Actinium	<b>Th</b> Thorium	<b>Pa</b> Protactinium	<b>U</b> Uranium	<b>Np</b> Neptunium	<b>Pu</b> Plutonium	<b>Am</b> Americium	<b>Cm</b> Curium	<b>Bk</b> Berkelium	<b>Cf</b> Californium	<b>Es</b> Einsteinium	<b>Fm</b> Fermium	<b>Md</b> Mendelevium	<b>No</b> Nobelium	<b>Lr</b> Lawrencium

# Elements Of Chemical Physics

**Liyong Dong**



## Elements Of Chemical Physics:

**ELEMENTS OF CHEMICAL PHYSICS** JOSIAH PARSONS. COOKE, 2018 Elements of Chemical Physics Josiah Parsons Cooke, 1886 *Elements of Chemical Physics* Josiah P. Cooke, Jr., 1860 **ELEMENTS OF CHEMICAL PHYSICS** Josiah Parsons 1827-1894 Cooke, 2016-08-25 **Elements of Chemical Physics (Classic Reprint)** Josiah Parsons Cooke Jr., 2017-07-27 Excerpt from Elements of Chemical Physics Physical and Chemical Changes If next we study the various changes to which all substances are liable we shall find that they also may be divided into two classes first those changes by which the specific properties are not altered and see only those by which the specific properties are essentially modified and the identity of the substance lost Thus a mass of copper may be transported to a distant part of the globe it may be divided into exceedingly small particles it may be melted and cast into nails it may be coined but yet although the position the size or the external shape is thus entirely changed those qualities which distinguish copper which make it to be copper are not altered Water may be frozen by cold or converted into steam by heat yet the water is not destroyed for if the ice be melted or the steam condensed and water reappears with all its characteristic properties A bar of iron when in contact with a magnet becomes itself magnetic and acquires the power of attracting small particles of iron So also a stick of sealing wax if rubbed with a silk handkerchief becomes electrified and endowed with the power of attracting light pieces of paper but the peculiar properties of iron and sealing wax are not essentially modified by these changes Such changes which do not destroy the identity of substance are called Physical Changes About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works **Elements of Chemical Physics** Josiah Parsons Cooke (Jr.), 1886 **Elements of Chemistry: Chemical physics** William Allen Miller, 1867 Elements of Chemistry William Allen Miller, 1855 Elements of Chemical Physics - Primary Source Edition Josiah Parsons Cooke, 2013-10 This is a reproduction of a book published before 1923 This book may have occasional imperfections such as missing or blurred pages poor pictures errant marks etc that were either part of the original artifact or were introduced by the scanning process We believe this work is culturally important and despite the imperfections have elected to bring it back into print as part of our continuing commitment to the preservation of printed works worldwide We appreciate your understanding of the imperfections in the preservation process and hope you enjoy this valuable book **Elements of chemistry: theoretical and practical** William Allen Miller, 1860 **Elements of Chemistry** William Allen Miller, 1877 Elements Of Chemistry; Theoretical And Practical (Part I) Chemical Physics William Allen Miller, 2021-03-22 Elements Of

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~~god i thought i knew my experiences growing up catholic~~

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