

History of Atomic Theory (Rev. B, WEV, 12-16-2024)

| Published | Author(s) | Author's Life | Principal |
|--------------|---|---------------|--|
| 400 BC | Democritus Leucippus (mentor) Epicurus | 460-370 BC | Atom/void (vs. Aristotle) |
| 1775 | Lavoisier | 1743-1794 | Conservation of matter (debunked phlogiston) |
| 1808 | Dalton | 1766-1844 | Atomic theory (billiard ball/ball and hook) |
| 1863 | Newlands | 1837-1898 | Periodic table "Law of Octaves" |
| 1864-1869 | Meyer | 1830-1895 | Periodic table |
| 1869 | Mendeleev | 1834-1907 | Periodic table |
| 1888 | Rydberg | 1854-1919 | Spectroscopic energy transitions, n quantum |
| 1897 | Thompson | 1856-1940 | Charge to mass ratio of electron |
| 1900 | Planck | 1858-1947 | Black-body radiation, quantization |
| 1905 | Einstein | 1879-1955 | Photoelectric effect, "light quanta" |
| 1909 | Millikan | 1868-1953 | Charge of electron |
| 1910 | Rutherford | 1871-1937 | Nuclear atom |
| 1913 | Bohr | 1885-1962 | Planetary model |
| 1916 | Sommerfeld | 1868-1951 | Fine-structure constant, l quantum |
| 1920 | Rutherford | 1871-1937 | Proton |
| 1925 | Pauli | 1900-1958 | Exclusion principle |
| 1925 | DeBroglie | 1892-1987 | Matter waves, standing circular wave |
| 1925 1926 | Born | 1882-1970 | Quantum matrix mechanics Probability density function |
| 1926 | Schrodinger | 1887-1961 | Wave equation |
| 1926 | Lewis | 1875-1946 | Popularized the name "photon" |
| 1927 | Heisenberg | 1901-1976 | Uncertainty principle |
| 1932 | Chadwick | 1891-1974 | Neutron |

Some Contributors to Atomic Theory

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