

As at September 2019

Main categories

- 2** Mathematics, Computer Science
- 4** Physics, general
- 6** Experimental Methods and Experimental Techniques in Physics
- 8** Quantum Mechanics, Quantum Field Theory
- 10** Elementary Particles, Nuclear Physics
- 12** Mechanics, Elasticity, Rheology, Acoustics
- 14** Statistical Physics and Thermodynamics
- 16** Electrodynamics
- 18** Particle Optics, Electron Microscopy
- 20** Optics
- 22** Techniques in Spectroscopy (Spectroscopical Techniques)
- 24** Atomic and Molecular Physics, Quantum Chemistry
- 26** Condensed Matter Physics
- 27** Catalysis
- 28** Interfaces, Surfaces, Thin Films, Colloids
- 29** Nanostructures
- 30** Biophysics
- 32** Reaction Kinetics and Reaction Mechanisms
- 34** Electrochemistry
- 36** Photochemistry and Radiochemistry
- 38** Physical Chemistry, general
- 39** Energy
- 40** Chemistry, general
- 42** Inorganic Chemistry
- 44** Organic Chemistry
- 46** Macromolecular Chemistry
- 48** Analytic Separation and Detection Techniques
- 50** Tables and Reference Works
- 60** Other Categories
- 62** History of Science
- 70** General Topics

2 Mathematics, Computer Science

- A** General, Reference Works
- B** Textbooks (general)
- E** Function and Integral Tables, Special Functions
- F** Algebra (except Linear Algebra and Group Theory), Set Theory, Logic, Graph Theory, Categories and Functors, Lattices, Number Theory
- G** Linear Algebra, Vectors, Tensors, Matrices, Geometry, Differential Geometry, Topology
- H** Group Theory
- I** Analysis, Complex Analysis, Series
- K** Calculus (Differentiation, Integration, Variations), Non-Linear Problems
(see also **2 N**, **14 A** and **14 I**)
- L** Calculus, Integral Transformations (Fourier, Laplace), Operators
- M** Probability Theory, Stochastic Processes, Statistics, Cybernetics
- N** Mathematical Methods in Physics and Chemistry (see also **2 K**)
- P** Numerical Methods, Graphical Methods, Computer Science
- Q** Computational Physics, Computational Chemistry

4 Physics, general

- A** General
- B** Textbooks (general)
- C** Conference Proceedings (general)
- E** Reference Manuals, Encyclopedias, Lexica
- F** Collected Works
- G** Theory of Relativity, Gravitation
- H** Astronomy
- Z** Others

6 Experimental Methods and Experimental Techniques in Physics

- A** General
- E** Vacuum Physics and Vacuum Technology: Conference Proceedings
- F** Vacuum Physics and Vacuum Technology
- G** Low Temperature Physics (Cryogenic): Conference Proceedings and Series
- H** Cryogenic (Low Temperature Physics and Technology)
- I** Electrical Metrology, Instruments, Electrical Engineering, Electronics
- K** Temperature Measurements, Calorimetry (see also **14**)
- L** Radiation Detection
- M** Free Electron Laser, Synchrotron Radiation, Accelerator (see also **70 X**)
- N** Photography
- P** Microelectronics - Computer
- Z** Others

8 Quantum Mechanics, Quantum Field Theory

- A** General
- F** Relativistic Quantum Mechanics and Quantum Field Theory, Quantum Electro Dynamics
- G** Quantum Statistics and Many-Body Physics
- H** Scattering Theory
- I** Specific Problems
- K** Density Functional Theory (DFT)

10 Elementary Particles, Nuclear Physics

- E** Physics of Elementary Particles and Fields
- F** Nuclear Physics and Nuclear Technology
- G** Nuclear Decay and Radioactivity

12 Mechanics, Elasticity, Rheology, Acoustics

- A** General
- E** Classical Mechanics
- F** Fluid Dynamics
- G** Elasticity, Rheology (see also **26 N** and **H**)
- H** Acoustics, Ultrasonic

14 Statistical Physics and Thermodynamics

- A** General
- B** Textbooks
- E** Thermodynamic: Equilibrium
- F** Statistical Mechanics: Equilibrium (see also **14 G** and **26 R**)
- G** Irreversible Processes: Transport Phenomena (see also **14 F** and **26 R**)
- H** Non-Equilibrium Thermodynamics, Phase Transitions, Non-Linear Systems, Synergetic
- I** Chaos and Fractals (see also **2 K**)

16 Electrodynamics

- E** Classical Electromagnetism
- F** Plasmaphysics, Electrical Discharge

18 Particle Optics, Electron Microscopy (EM)

(Mass Spectroscopy see **22 K**)

- A** General, Varia, Tables
- C** Conference Proceedings
- E** Electron Microscopy, general (including Scanning EM and sample Preparation)
(see also **16 D**)
- F** Scanning-EM/STM/AFM (specific)
- G** Electron Optics, Particle Optics
- H** Electron Diffraction, Neutron Diffraction (LEED, RHEED, etc.) (see also **26 G**)
- I** Electron Spectroscopy, Microanalysis (AEM, EELS, AES, SAM, EDXS etc.)
(see also **22 I**)
- K** EM Applications, Electron Beam Technology, X-Ray Microscopy
- M** Field Electron and Field Ion Microscopy, Ion Microanalysis

20 Optics

- A** General, Scattering of Light
- B** Textbooks
- E** Lasers and Applications
- F** Quantum and Non-Linear Optics, Quantum Electronics
- G** Optical Information and Technology, Image Processing, Holography
- H** Light Microscopy
- I** Ultrafast Processes and Lasers

22 Techniques in Spectroscopy (Spectroscopical Techniques)

- A** General
- E** Visible (Light), UV and X-Ray (Absorption and Fluorescence)
- F** IR (Infrared), Terahertz
- G** Raman-Spectroscopy
- H** ESR, NMR, Mößbauer
- I** ESCA, AugerES, UPS, XPS, EXAFS, (see also **18 I**), Tunnel Spectroscopy
- K** Mass Spectrometry
- Z** Others

24 Atomic and Molecular Physics, Quantum Chemistry

- A** General
- B** Textbooks
- E** Atomic, Molecular and Complex Spectroscopy
- F** Non-Radiative Transitions, Fluorescence
- G** Atomic and Molecular Beams, Scattering Processes
- H** Chemical Bonds (see also **44 G**)
- I** Calculations of Molecular Orbitals (for Magnetic Resonance see **22 H**)

26 Condensed Matter Physics

- A** General
- B** Textbooks, Monographs
- C** Conference Proceedings
- E** Crystallography, Structural Analysis of Crystals, X-Ray Interferometry
- F** Mineralogy, Solid State Chemistry
- G** Other Methods for Structure Analysis (e.g. Neutron Diffraction ...) (see also **18**, **22** and **28**)
- H** Properties of Solids (except Optical Properties)
- I** Electronic Structure (see also **26 B** and **26 H**)
- K** Optical Properties, Luminescence
- L** Semiconductors, Insulators, Organic Solids
- M** Metals, Metallography
- N** Polymers (see also **46 F**)
- O** Periodic Lattices – Low Dimensional Structures (Solids)
- P** Defects in Crystals, Radiation Damage
- Q** Crystal Growth and Reactions in Solids
- R** Liquids, Liquid Crystals (see also **14 F** and **G**)
- T** Superconductivity, Super Fluidity (see also **6 H**)
- U** Semiconductor Devices, Solar Cells (see also **34 H**)
- Z** Others

27 Catalysis

- A General
- C Conference Proceedings (general)
- E Heterogeneous Catalysis
- F Applications
- K Kinetics
- O Homogeneous Catalysis
- P Preparation
- S Surfaces
- T Theory
- U Analytical Methods

28 Interfaces, Surfaces, Thin Films, Colloids

- A General
- C Conference Proceedings
- H Surfaces: Structure, Properties, Preparation and Applications (see also **18** and **22**)
- K Adsorption (Chemi- and Physisorption)
- P Thin Films, Films and Small Clusters, Fullerenes and Nanostructures (see also **29**)
- Q Colloids
- R Matrix Isolation
- S Membranes, Micelles, Vesicle, Micro Emulsions, Aerosols, Liquid Interfaces

29 Nanostructures

- A** General
- B** Textbooks
- C** Conference Proceedings
- F** Fullerenes, Nanotubes, Graphene
- G** Nanophysics, Optics, Electronics, Mechanics
- I** Nanochemistry, Catalysis
- P** Particles, Wires, Films
- S** Synthesis, Fabrication
- T** Theory, Simulation

30 Biophysics und Biochemistry

- A** Biophysics and Biochemistry, general (see also **44 F** and **32 G**)
- C** Conference Proceedings
- E** Photosynthesis

32 Reaction Kinetics and Reaction Mechanisms

- A** General
- B** Textbooks
- C** Conference Proceedings
- E** Elementary Processes (Electron and Proton Transfer, etc.)
- F** Kinetics in the Gas Phase
- G** Kinetics in Solutions
- H** Kinetics in Biochemistry
- Z** Others

34 Electrochemistry

- A** General
- B** Textbooks
- C** Conference Proceedings
- E** Technical Electrochemistry, Fuel Cells, Batteries
- F** Electrode Processes (see also **48 I** and **L**)
- G** Electrolytes
- H** Photo- and Electrochemistry (see also **26 U**)
- Z** Others

36 Photochemistry and Radiochemistry

- E** Photochemistry
- F** Radiochemistry and Isotope Chemistry

38 Physical Chemistry, general

- A** General
- B** Textbooks
- H** Water

39 Energy

- A General
- B Textbooks
- C Conference Proceedings
- E Climate and Politics
- F Energy Storage
- G Energy Sources
- H Hydrogen

40 Chemistry, general

- A General (Reference Manuals, Encyclopedias, Lexica, Name Reactions)
- B Textbooks
- E Nomenclature, Information Systems
- F Chemical Engineering

42 Inorganic Chemistry

- A General
- B Textbooks
- E Monographs (amongst others Complexes)
- F Inorganic Synthesis (see also **44 H**)

44 Organic Chemistry

- A General
- B Textbooks
- E Monographs
- F Biochemical Synthesis (see also **30 A**)
- G Constitution, Stereochemistry (see also **24 H**)
- H Organic Synthesis (see also **42 F**)

46 Macromolecular Chemistry

- A General (Manuals, Tables), Textbooks
- E Polymerisation
- F Polymers (Chemical Properties) (see also **26 N**)
- G Ion Exchanges, Polyions (see also **48 K**)
- H Preparation and Analysis

48 Analytic Separation and Detection Techniques

- A General
- E Monographs
- F Qualitative Analysis in Inorganic Chemistry
- G Quantitative Analysis in Inorganic Chemistry
- H Organic and Biochemical Analysis (see also **46 G**)
- I pH-Measurements, Buffers (see also **34 F**)
- K Chromatographic and Distribution Techniques (see also **46 G**)
- L Electrochemical Techniques (see also **34 E and F**)
- M Spectroscopy (see also **22**)
- Z Others

50 Tables, Reference Books

- E** Chemical Tables
- G** Landolt-Börnstein
- H** Beilstein
- I** Gmelin

60 Other Categories

- E** Philosophy
- G** Biology (and Medicine)
- I** Technology and Engineering, general (Electric Engineering see **6 I**)
- Z** Others

62 History of Science

- A** General, History of Science
- E** History and Philosophy of Science
- F** History and Philosophy of Physics
- G** History and Philosophy of Chemistry
- P** Science Policy

70 General Topics

- A** Encyclopedias
- E** Dictionaries
- F** Address Books, Bibliographies
- G** Annual Reports, Festschriften, Jubilee Publications
- H** Academia, Academies, MPS
- K** Biographies
- L** Law
- X** Health and Safety, Radiation Protection
- Z** Others

70 General Works

A Encyclopedias

- 1 - 20** Brockhaus etc.
- 21 - 40** other Lexica, concise Dictionaries
- 41 -** Gelehrten-Kalender (Kürschner, Poggendorff etc.)

E Dictionaries

- 1 - 20** German Dictionaries (Duden)
- 21 - 50** Multilingual Books
- 51 - 100** English
- 101 - 120** French
- 121 - 125** Dutch
- 126 - 130** Swedish
- 131 - 135** Italian
- 136 - 140** Spanish
- 141 - 145** Latin
- 146 - 150** Greek
- 151 - 170** Russian und Ukrainian
- 171 - 175** Polish
- 176 - 180** Czech
- 181 -** Japanese

F Address Books, Bibliographies

- 1 - 20** „Who's who“
- 21 - 50** Address Books (Scientists)
- 51 - 80** Address Books (Societies)
- 81 - 100** Address Books (Companies)
- 101 -** Catalogue of Scientific Societies and Institutions
(Academies, Universities, Libraries, Museum, etc.)

Register

A

- Absorption (Methods) **22 E**
- Academia **70 H**
- Academies **70 H**
- Accelerator **6 M**
- Acoustics **12 H**
- Address Books **70 F**
- Adsorption **28 K**
- Aerosol **28 S**
- Algebra **2 F**
- Algebra, Linear **2 G**
- Analysis, Inorganic Qualitative **48 F**
- Analysis, Inorganic Quantitative **48 G**
- Analysis, Organic und Biochemical **48 H**
- Analysis (Math.) **2 I**
- Annual Reports **70 G**
- Astronomy **4 H**
- Astrophysics **4 H**
- Atomic Beams **24 G**
- Atomic Spectroscopy **24 E**
- Auger ES (Methods) **22 I**

B

Batteries **34 E**
Bibliographies **70 F**
Biochemical Synthesis **44 F**
Biochemistry, General **30 A**
Biographies **70 K**
Biology **60 G**
Biophysics, General **30 A**
Buffers **48 I**

C

Calculations of Molecular Orbitals **24 I**
Calculus **2 K** and **2 N**
Calorimetry **6 K**
Catalysis, Heterogeneous **27 E**
Catalysis, Homogenous **27 O**
Categories **2 F**
Chaos **14 I**
Chemical Bonds **24 H**
Chemical Engineering **40 F**
Chemistry, Mathematical Methods **2 N**
Chemisorption **28 K**
Chromatographic Techniques **48 K**
Classical Mechanics **12 E**
Classical Electromagnetism **16 E**
Climate **39 E**
Climate Change **39 E**
Clusters (small) **28 P** and **29 P**
Collected Works (Physics) **4 F**
Colloids **28 Q**
Complex Analysis **2 I**

Complex Spectroscopy **24 E**
Computational Chemistry **2 Q**
Computational Physics **2 Q**
Computer Science **2 P**
Constitution **44 G**
Corrosion **34 E**
Cryogenic **6 H**
Crystal Growth **26 Q**
Crystallography **26 E**
Crystals, Liquid **26 R**
Crystals, Structural Analysis of **26 E**
Cybernetics **2 M**

D

Defects in Crystals **26 P**
Density Functional Theory **8 K**
Dictionaries **70 E**
Differential Geometry **2 G**
Differentiation **2 K**
Discharge, Electrical **16 F**
Distribution Techniques **48 K**

E

Elasticity **12 G**
Electrical Engineering **6 I**
Electrical Instruments **6 I**
Electrical Metrology **6 I**
Electrochemical Techniques **48 L**
Electrochemistry, Technical **34 E**
Electrode Processes **34 F**

Elektrolytes **34 G**
Electromagnetism, Classical **16 E**
Electron Beam Technology **18 K**
Electron Diffraction **18 H**
Electron Microscopy Applications **18 K**
Electron Microscopy, General **18 K**
Electron Optics **18 G**
Electron Spectroscopy **18 I**
Electron Transfer **32 E**
Electronic Structure **26 I**
Electronics **6 I**
Elementary Particles, Physics of **10 E**
Elementary Processes **32 E**
Energy Policy **39 E**
Energy Sources **39 G**
Energy Storage **39 F**
Encyclopedias **70 A**
Environmental Science **60 H**
ESCA (Methods) **22 I**
ESR (Methods) **22 I**
EXAFS **22 I**

F

FEL **6 M**
Festschriften **70 G**
Field Electron Microscopy **18 M**
Field Ion Microscopy **18 M**
Fields, Physics **10 E**
Films **28 P und 29 P**
Fluid Dynamics **12 F**
Fluorescence **24 F**
Fluorescence (Methods) **22 E**

Fourier (Integral Transformations) **2 L**
Fractals **14 I**
Free Electron Laser **6 M**
Fuel cells **34 E**
Fullerenes **29 F**
Functions, Special **2 E**
Function and Integral Tables **2 E**
Functors **2 F**

G

Gas Phase, Kinetics in the **32 F**
General Biochemistry **30 A**
General Biophysics **30 A**
Geometry **2 G**
Graphene **29 F**
Graph Theory **2 F**
Graphical Methods **2 P**
Gravitation **4 G**
Group Theory **2 H**

H

Health and Safety Protection **70 X**
History and Philosophy of Chemistry **62 G**
History and Philosophy of Physics **62 F**
History and Philosophy of Science **62 E**
History of Science, general **62 A**
Holography **20 G**
Heterogeneous Catalysis **27 E**
Homogenous Catalysis **27 O**

I

Image Processing **20 G**
Information, Optical **20 G**
Information Systems **40 E**
Inorganic Synthesis **42 F**
Instruments, Electrical **6 I**
Insulators **26 L**
Integral Tables **2 E**
Integration (Calculus) **2 K**
Integral Transformations **2 L**
Interfaces, Liquid **28 S**
Ion Exchanges **46 G**
Ion Microanalysis **18 M**
IR (Infrared) **22 F**
Irreversible Processes **14 G**
Isotope Chemistry **36 F**

J

Jubilee Publications **70 G**

K

Kinetics in Biochemistry **32 H**
Kinetics in Catalysis **27 K**
Kinetics in the Gas Phase **32 F**
Kinetics in Solutions **32 G**

L

Laplace (Integral Transformations) **2 L**
Laser **20 F**
Lattices **2 F**
Law **70 L**
LEED **18 H**
Light Microscopy **20 H**
Light, Scattering of **20 A**
Light, Visible (Methods) **22 E**
Linear Algebra **2 G**
Liquid Crystals **26 R**
Liquid Interfaces **28 S**
Liquids **26 R**
Logic **2 F**
Low Dimensional Solids **26 O**
Low Temperature Physics and Technology **6 H**
Luminescence **26 K**

M

Magnetic Resonance **22 H**
Many-Body Physics **8 G**
Mass Spectrometry **22 K**
Mathematical Methods in Physics and Chemistry **2 N**
Matrices **2 G**
Matrix Isolation **28 R**
Max Planck Society **70 H**
Mechanics, Classical **12 E**
Mechanics, Statistical: Equilibrium **14 F**
Medicine **60 G**
Membranes **28 S**
Metallography **26 M**

Metals **26 M**
Metrology, Electrical **6 I**
Methods, Graphical **2 P**
Methods, Mathematical in Physics and Chemistry **2 N**
Methods, Numerical **2 P**
Microanalysis **18 I**
Microelectronics - Computer **6 P**
Micro Emulsions **28 S**
Mineralogy **26 F**
Micelles **28 S**
Molecular Beams **24 G**
Molecular Orbitals, Calculations of **24 I**
Molecular Spectroscopy **24 E**
Mößbauer **22 H**

N

Nanochemistry **29 I**
Nanoparticles **29 P**
Nanophysics **29 G**
Nanotubes **29 F**
Neutron Diffraction **18 H and 26 G**
NMR (Methods) **22 H**
Non-Linear Optics **20 F**
Non-Linear Problems **2 K**
Non-Linear Systems **14 H**
Non-Radiative Transitions **24 F**
Nomenclature **40 E**
Nuclear Decay **10 G**
Nuclear Physics **10 F**
Nuclear Technology **10 F**
Number Theory **2 F**
Numerical Methods **2 P**

O

Operators **2 L**
Optical Information **20 G**
Optical Properties **26 K**
Optics, Non-Linear **20 F**
Organic Synthesis **44 H**
Organic and Biochemical Analysis **48 H**
Organic Solids **26 L**

P

Particle Optics **18 G**
Periodic Lattices **26 O**
Phase Transitions **14 H**
Philosophy **60 E**
Philosophy of Chemistry **62 G**
Philosophy of Physics **62 F**
Philosophy of Science **62 E**
pH-Measurements **48 I**
Photo- and Electrochemistry **34 H**
Photochemistry **36 E**
Photography **6 N**
Photosynthesis **30 E**
Physics, Mathematical Methods **2 N**
Physics of Elementary Particles and Fields **10 E**
Physisorption **28 K**
Plasmaphysics **16 F**
Polyions **46 G**
Polymers **26 N**
Polymers (Chemical Properties) **46 F**
Polymerisation **46 E**
Probability Theory **2 M**

Problems, Non-Linear **2 K**
Problems, Specific (Quantum Mechanics) **8 I**
Properties, Optical **26 K**
Properties of Solids (except Optical Properties) **26 H**
Proton Transfer **32 E**
Processes, Irreversible **14 G**
Processes, Stochastic **2 M**

Q

Quantum Electro Dynamics **8 F**
Quantum Electronics **20 F**
Quantum Field Theory **8 F**
Quantum Mechanics, Relativistic **8 F**
Quantum Optics **20 F**
Quantum Statistics **8 G**

R

Radiation Damage **26 P**
Radiation Detection **6 L**
Radiation Protection **70 X**
Radioactivity **10 G**
Radiochemistry **36 F**
Raman Spectroscopy **22 G**
Reactions in Solids **26 Q**
Relativistic Quantum Mechanics **8 F**
Relativity, Theory of **4 G**
RHEED **18 H**
Rheology **12 G**

S

Scanning **18 E**
Scanning-Tunneling-Microscopy **18 F**
Scattering (of Light) **20 A**
Scattering Processes **24 G**
Scattering Theory **8 H**
Science Policy **62 P**
Semiconductor Devices **26 U**
Semiconductors **26 L**
Series **2 I**
Set Theory **2 F**
Small Clusters **28 P**
Solar Cells **26 U** and **34 H**
Solid State Chemistry **26 F**
Solids, Organic **26 L**
Solids, Reactions in **26 Q**
Special Functions **2 E**
Spectroscopy **48 M**
Specific Problems (Quantum Mechanics) **8 I**
Statistics **2 M**
Statistical Mechanics **14 F**
Stereochemistry **44 G**
STM **18 F**
Stochastic Processes **2 M**
Structural Analysis of Crystals **26 E**
Structure Analysis **26 G**
Superconductivity **26 T**
Super Fluidity **26 T**
Surfaces **28 H**
Synchrotron Radiation **6 M**
Synergetic **14 H**
Synthesis, Biochemical **44 F**
Synthesis, Inorganic **42 F**

Synthesis, Organic **44 H**
Systems, Non-Linear **14 H**

T

Technology and Engineering, General **60 I**
Technical Electrochemistry **34 E**
Techniques, Electrochemical **48 L**
Temperature Measurements **6 K**
Tensors **2 G**
Terahertz **22 F**
Theory of Relativity **4 G**
Thermodynamic: Equilibrium **14 E**
Thermodynamics, Non-Equilibrium **14 H**
Thin Films **28 P** und **29 P**
Topology **2 G**
Transitions, Non-Radiative **24 F**
Transport Phenomena **14 G**
Tunnel Spectroscopy **22 I**

U

Ultrafast Processes **20 I**
Ultrasonic **12 H**
UPS (Methods) **22 I**
UV (Methods) **22 E**

V

Vacuum Physics and Vacuum Technology **6 F**

Variations **2 K**

Vectors **2 G**

Vesicle **28 S**

Visible Light (Methods) **22 E**

W

Water **38 H**

Wires (Nano-) **29 P**

Works, Collected (Physics) **4 F**

X

XPS (Methods) **22 I**

X-Ray (Methods) **22 E**

X-Ray Interferometry **26 E**

X-Ray Microscopy **18 K**