



# Springer Materials

LANDOLT-BÖRNSTEIN(Juny 2010)

## Springer Materials

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- Contingut i visió general de la plataforma
- Tipus de cerca:
  - Simple
  - Avançada
- Navegació:
  - Àrea temàtica
  - BookShelf (obra impresa)
  - Taula periòdica
- Visualització dels resultats
- Altres bases de dades comparables

## Contingut de Springer Materials:

- [Landolt-Börnstein New Book Series](#) (>400 volums) més material electrònic suplementari.
- [Inorganic Solid Phases \(LPF -Linus Pauling File Database-Multinaries Edition2008\)](#) conté 3 col·leccions : dades d'estructura/difracció, diagrames de fases i propietats físiques.
- Un subconjunt de la base de dades [DDBST-Dortmund Data Bank Software & Separation Technology Database](#) que conté propietats termofísiques de més de 50 líquids orgànics importants més l'aigua i les seves mesclures binàries.
- Documents sobre seguretat química provinents dels arxius [REACH](#)(Registration, Evaluation, Authorization and Restriction of Chemicals), [Hazard Information](#) (Dangerous Substances Directive 67/548/EEC), [GHS](#) (Globally Harmonized System), [RoHS](#) (Restriction of Hazardous Substances), [WEEE](#) (Waste from Electrical and Electronic Equipment) and [ECHA](#) (the European Chemicals Agency).

## Landolt-Börnstein

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- Col·lecció de dades més completa dels camps de la física, química física, enginyeria, ciència de materials, tecnologia, geofísica, biofísica i astronomia.
- Accessible en versió impresa i electrònica (Springer materials).
- Les dades són extretes de la literatura original i revisades per experts en la matèria. S'inclou la bibliografia corresponent.
- L'obra impresa consta de la sisena edició, en alemany, que conté la informació de caire fonamental i que segurament no necessitarà futures revisions, i dels volums de les "New Series", en anglès, que van apareixent de manera continuada segons l'estat de la recerca i tècnica actuals.

## Landolt-Börnstein

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- Els volums de les “New Series” estan agrupats en 8 grups segons temàtica.
- Moltes vegades els volums es desdoblen en subvolums que s’identifiquen amb lletres minúscules. Els subvolums poden tenir més d’un tom. Ex: III/17a1
- A la biblioteca tenim la sisena edició (1950-1980) i subscrietes les sèries 2 (Molècules i radicals), 3 (Matèria condensada) i 4 (Química Física). Els volums de la resta de sèries es reben segons necessitats.

## Springer materials

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- Accés il·limitat d'usuaris.
- Reconeixement per IP.
- Funcionalitats:
  - Cercador full-text tipus google.
  - Cerques per paraula clau.
  - Navegació per àrees temàtiques i per les taules de contingut de la versió impresa.
  - Resultats ordenats per rellevància.
  - Fàcil enllaç dels resultats amb les dades de la Landolt-Börnstein.



**Cerca tipus google a tota la base de dades**

**Cerca avançada**

**Opcions de navegació:**

- Àrea temàtica
- Obra impresa (BookShelf)
- Taula periòdica

**Cerca tipus google a tota la base de dades**

The Landolt-Börnstein Database

Springer

Go Advanced Search

Subject Areas Bookshelf Periodic Table User Guide For Librarians Feedback

Particles, Nuclei and Atoms  
Molecules and Radicals  
Electronic Structure and Transport  
Magnetism  
Semiconductivity  
Superconductivity  
Crystallography  
Thermodynamics  
Multiphase Systems  
Advanced Materials  
Advanced Technologies  
Astro- and Geophysics


Search in

**SpringerMaterials**

Go

The World's Largest Resource for Physical & Chemical Data:  
Instances & Material Systems | 3,000 Properties | 1,000,000 Literature Citations

# Cerca simple

**SpringerMaterials** The Landolt-Börnstein Database 

Subject Areas | **Bookshelf** | Periodic Table | User Guide | For Librarians | Feedback

- Particles, Nuclei and Atoms
- Molecules and Radicals
- Electronic Structure and Transport
- Magnetism
- Semiconductivity
- Superconductivity
- Crystallography
- Thermodynamics
- Multiphase Systems
- Advanced Materials
- Advanced Technologies
- Astro- and Geophysics

**Search in**

## SpringerMaterials

- UR<sub>e</sub><sub>2</sub>
- urea
- Uretan
- Urea d<sub>4</sub>
- Urea-d<sub>4</sub>
- Ureol P
- Urepeal
- Urevert
- Ureyite
- urethan
- Urea-12C
- Ureaphil
- Ureophil
- Urepearl

The Wo 165,000 Substances

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Al posar un terme de cerca ens dóna les diferents possibilitats.



# Cerca avançada



Cerca a la bibliografia per autor, revista etc.

SpringerMaterials and the Landolt-Börnstein Database

Springer

Substances, Properties, ... **Bibliographic References** Help Close

Your Query

Go Clear

**Search for ...**

Substances / Molecular Formulas / Element Systems / CAS Registry Numbers

Properties

**Search in ...**

- Particles, Nuclei and Atoms
- Molecules and Radicals
- Electronic Structure and Transport
- Magnetism
- Semiconductivity
- Superconductivity
- Crystallography
- Thermodynamics
- Multiphase Systems
- Advanced Materials
- Advanced Technologies
- Astro- and Geophysics
  
- Inorganic Solid Phases
- Thermophysical Properties
  
- Chemical Safety

**Search for ...**

... all of these words

... one or more of these words

... exactly this phrase

... but none of these words

Help For Librarians Feedback

Go

Material

ical Data in Materials Science:  
s | 1,200,000 Literature Citations

new +++ what's new +++ what's new +++

s (more ...)  
rties (more ...)  
more ...)

more ...)

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Cerca de substàncies i propietats

# Navegació per Àrea temàtica

The screenshot shows the Springer Materials website interface. At the top, it says 'Springer Materials The Landolt-Börnstein Database' and features the Springer logo. Below this is a search bar with 'Go' and 'Advanced Search' buttons. A navigation bar contains links for 'Subject Areas', 'Bookshelf', 'Periodic Table', 'User Guide', 'For Librarians', and 'Feedback'. The 'Subject Areas' menu is open, listing various topics, with 'Superconductivity' circled in blue. A callout bubble points to this menu with the text 'Navegació per tema: Escollim Superconductivity'. The main content area shows a breadcrumb trail '> Semiconductivity > Electronic Transport Properties' highlighted with a blue box and a callout bubble 'Ruta de cerca'. Below this, the title 'Quantum point contacts' is followed by a list of sub-topics: 'Introduction', 'Overview of systems', 'References', 'Quantized transport', 'Frequency- and time-dependent effects', 'References', 'Applications', 'References', and 'Reference key and author index'. A callout bubble 'Contingut' points to this list.



# Navegació per l'Obra impresa (Bookshelf)

**SpringerMaterials** The Landolt-Börnstein Database

 Springer

Subject Areas
Bookshelf
Periodic Table
User Guide
For Librarians
Feedback

Group I	Elementary Particles, Nuclei and Atoms
Group II	Molecules and Radicals
Group III	Condensed Matter
Group IV	Physical Chemistry
Group V	Geophysics
Group VI	Astronomy and Astrophysics
Group VII	Biophysics
Group VIII	Advanced Materials and Technologies

> Group I: Elementary Particles, Nuclei and Atoms

### Group I: Elementary Particles, Nuclei and Atoms


- I/1 Nuclei · Energy Levels of Nuclei: A = 5 to A = 257
- I/2 Nuclei · Nuclear Radii
- I/3 General Topics · Numerical Tables for Angular Correlation Computations: 3j-, 6j-, 9j-Symbols, F- and Gamma-Coefficients
- I/4 Nuclei · Numerical Tables for Beta-Decay and Electron Capture
- I/5a Nuclei · Q-Values and Excitation Functions of Nuclear Reactions · Q-Values
- I/5b Nuclei · Q-Values and Excitation Functions of Nuclear Reactions · Excitation Functions for Charged-Particle Induced Nuclear Reactions
- I/5c Nuclei · Q-Values and Excitation Functions of Nuclear Reactions · Estimation of Unknown Excitation Functions and Thick Target Yields for p, d, He-3 and Alpha-Reactions
- I/6 Elementary Particles · Properties of Elementary Particles
- I/7 Elementary Particles · Elastic and Charge Exchange Scattering of Elementary Particles
- I/8 Elementary Particles · Photon Interactions with Elementary Particles
- I/9a Elementary Particles · Elastic and Charge Exchange Scattering of Elementary Particles · Nucleon Nucleon and Kaon Nucleon Scattering
- I/9b1 Elementary Particles · Elastic and Charge Exchange Scattering of Elementary Particles · Pion Nucleon Scattering. Part 1: Tables of Data
- I/9b2 Elementary Particles · Elastic and Charge Exchange Scattering of Elementary Particles · Pion Nucleon Scattering. Part 2: Methods and Results of Phenomenological Analyses
- I/10 General Topics · Electroweak Interactions. Experimental Facts and Theoretical Foundation
- I/11 General Topics · Shielding Against High Energy Radiation
- I/12a Nuclei · Total Cross-Sections for Reactions of High Energy Particles · Subvolume A
- I/12b Nuclei · Total Cross-Sections for Reactions of High Energy Particles · Subvolume B
- I/14 Elementary Particles · Electron-Positron Interactions
- I/16a1 Elementary Particles · Low Energy Neutron Physics · Low Energy Neutrons and their Interaction with Nuclei and Matter. Part 1
- I/16a2 Elementary Particles · Low Energy Neutron Physics · Low Energy Neutrons and their Interaction with Nuclei and Matter. Part 2
- I/16b Elementary Particles · Low Energy Neutron Physics · Tables of Neutron Resonance Parameters
- I/16c Elementary Particles · Low Energy Neutron Physics · Tables of Neutron Resonance Parameters
- I/17a Atoms and Plasmas · Photon and Electron Interactions with Atoms, Molecules and Ions · Interactions of Photons and Electrons with Atoms

Totes les sèries de la versió impresa.

Permet la cerca per volum i subvolum

# Navegació per la taula periòdica



**SpringerMaterials** The Landolt-Börnstein Database 

Go Advanced Search

Subject Areas Bookshelf **Periodic Table** User Guide For Librarians Feedback

Cr

Ac-Cr

Ag-Cr

Al-Cr

Am-Cr

As-Cr

Au-Cr

B-Cr

Be-Cr

Bi-Cr

Br-Cr

C-Cr

Ca-Cr

Cd-Cr

Ce-Cr

Cl-Cr

Cm-Cr

Co-Cr

Cr-Cs

Cr-Cu

Cr-Dy

Cr-Er

Cr-Eu

Cr-F

Cr-Fe

Cr-Ga

Cr-Gd

Select elements by clicking on the symbols.  
Deselect element(s) by clicking a second time.

**Your Selection:**  
Cr\*

	1 IA	2 IIA	3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8 VIII B	9 VIII B	10 VIII B	11 IB	12 IIB	13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIIIA		
1	H	He																		
2	Li	Be											B	C	N	O	F	Ne		
3	Na	Mg											Al	Si	P	S	Cl	Ar		
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr		
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe		
6	Cs	Ba	**	Hf	Ta	W	Re	Os	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn			
7	Fr	Ra	**	Rf	Db	Sg	Bh	Hs	Mt	Ds										
				La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu		
				Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr		

Seleccioneu els elements

Dóna les diferents possibilitats



**SpringerMaterials** The Landolt-Börnstein Database  Springer

Titanium

Subject Areas | Bookshelf | Periodic Table | **Nombre de documents** | Guide | For Librarians | Feedback

Results 1 - 10 of 737 Documents

18 Particles, Nuclei and Atoms

90 Molecules and Radicals

76 Electronic Structure and Transport

93 Magnetism

62 Semiconductivity

9 Superconductivity

105 Crystallography

65 Thermodynamics

174 Multiphase Systems

3 Advanced Materials

35 Advanced Technologies

7 Astro- and Geophysics

**Documents rellevants a cadascuna de les Àrees temàtiques**

Multiphase Systems > Ternary Alloys > Phase Diagrams, Crystallography and Thermodynamics > Iron Systems > Iron Systems: Selected Systems from C-Cr-Fe to Co-Fe-S

**Carbon - Iron - Titanium**

**Metadata - Substance:** Carbon - Iron - Titanium... **Metadata - Keyword:** Carbon - Iron - Titanium... **Fulltext:** rich corner and show that titanium decreases the stability... decomposition. The ability of titanium to form carbide was also well... by [ 1942Hum ] showed that titanium steels react easily with nitrogen to give titanium nitrides impurities which...

Multiphase Systems > Ternary Alloys > Phase Diagrams, Crystallography and Thermodynamics > Non-Ferrous Metal Systems > Soldering and Brazing System

**Cu-Ti-Zr (Copper-Titanium-Zirconium)**

**Metadata - Substance:** Copper-Titanium-Zirconium... **Metadata - Keyword:** Copper - Titanium - Zirconium... **Fulltext:** Cu-Ti-Zr Copper - Titanium - Zirconium Tamara... materials for the brazing of titanium and zirconium alloys [ 1994Bot... 927°C. The dissolution of the titanium base metal is three times... at the interface of the titanium base metal...

Multiphase Systems > Ternary Alloys > Phase Diagrams, Crystallography and Thermodynamics > Non-Ferrous Metal Systems > Soldering and Brazing Systems

**Mn-Ti-Zr (Manganese-Titanium-Zirconium)**

**Metadata - Substance:** Manganese-Titanium-Zirconium... **Metadata - Keyword:** Manganese - Titanium - Zirconium... **Fulltext:** Mn-Ti-Zr Manganese - Titanium - Zirconium Volodymyr... as alloying elements in the titanium base metal... Secondly, alloys... alloys and, especially, titanium aluminide based materials... Phase in the Manganese-Titanium-Zirconium System

Electronic Structure and Transport > Electronic Structure > Metals: Electron and Phonon States > Metal compounds

**Figures 67...100**

**Metadata - Substance:** Titanium... Ti (titanium)... Titaniumpulver... Titanium element... Titanium nitride... Titanium nitride TiN... Titanium Mononitride... Titanium nitride (TiN)... **Metadata - ElementSystem:** Ti (Titanium)...

Superconductivity > Superconductors > Characterization and Transition Temperatures > Ti (Titanium)

**Ti element under pressure, films**

**Metadata - Substance:** Titanium... Ti (titanium)... Titaniumpulver... Titanium element... β-Titanium... **Metadata - ElementSystem:** Ti (Titanium)...

Electronic Structure and Transport > Electronic Structure > Metals: Electron and Phonon States > Phonon dispersion, frequency spectra, and related properties of metallic elements > Data for Ta...Tm

**Ti**

**Metadata - Substance:** Titanium... Ti (titanium)... Titaniumpulver... Titanium element... **Metadata - ElementSystem:** Ti (Titanium)...

**Dóna la ruta, el pdf, la informació bibliogràfica i les paraules clau**

## Altres bases de dades comparables:

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- **Reaxys:** Plataforma de consulta de les bases de dades Beilstein i Gmelin. Conté informació de propietats físico-químiques i de reaccions de compostos orgànics, inorgànics i organometàl·lics.
- **Inspec:** Base de dades consultable mitjançant la plataforma ISI Web of Knowledge. Dóna dades del camp de l'enginyeria i tecnologia.
- **SciFinder:** Interfície de consulta del Chemical Abstracts i d'altres bases de dades relacionades com Registry. Conté dades de propietats calculades i experimentals de tot tipus de substàncies.



Moltes gràcies!