

Perovskite-type oxides**Simple perovskite-type oxides**

Titanates

Other

Complex perovskite-type oxides $(A_{1/2}^{1+}A_{1/2}^{3+})MO_3$ - type $A^{2+}(M_{1/2}^{2+}M_{1/2}'^{6+})O_3$ - type $A^{2+}(M_{1/2}^{3+}M_{1/2}'^{5+})O_3$ - type $A^{2+}(M_{1/3}^{2+}M_{2/3}'^{5+})O_3$ - type $A^{2+}(M_{2/3}^{3+}M_{1/3}'^{6+})O_3$ - type $A(M,M',M'')O_3$ - type $(A,A')(M,M')O_3$ - type**Solid solutions with perovskite-type oxides as end members**

Solid solutions with simple end members

Solid solutions with complex end members

Ternary solid solutions, etc. with perovskite-type oxides as constituents

LiNbO₃ family

Pure compounds

Solid solutions

General information

Introduction

Symbols

Volume information

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Survey subvolume III/36A2

Simple perovskite-type oxides

1A

Titanates

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
CaTiO ₃	1A-7	•	•	•	•	•	•			•	•	•		•	•	•	•
SrTiO ₃	1A-8	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
CdTiO ₃	1A-9	•	•	•		•				•				•		•	
BaTiO ₃ cubic	1A-10a	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BaTiO ₃ hexagonal	1A-10b	•	•	•	•	•	•		•	•	•	•		•	•	•	
PbTiO ₃ [F]	1A-11	•	•	•	•	•	•	•		•	•	•		•	•	•	•

Simple perovskite-type oxides

1A

Other

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
NaNbO ₃ [(F), A]	1A-1	•	•	•	•	•				•		•		•	•	•	
KNbO ₃ [F]	1A-2	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
AgNbO ₃ [F]	1A-3	•			•	•	•				•					•	
NaTaO ₃	1A-4	•		•	•							•		•			•
KTaO ₃	1A-5	•	•	•	•	•	•	•	•	•	•	•		•	•		•
AgTaO ₃	1A-6	•		•	•	•					•						
CaZrO ₃	1A-12	•		•	•	•				•							•
SrZrO ₃	1A-13	•		•	•	•	•			•							•
BaZrO ₃	1A-14	•	•	•	•	•				•							
PbZrO ₃ [A]	1A-15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PbHfO ₃ [(A)]	1A-16	•	•	•	•	•				•	•	•	•	•			•
CdHfO ₃ [(A)]	1A-17	•	•	•	•	•											
BiFeO ₃ [F]	1A-18	•	•	•	•	•				•			•	•		•	

Complex perovskite-type oxides1B

$(A_{1/2}^{1+}A_{1/2}^{13+})MO_3$ -type1B-a

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
$(Na_{1/2}Bi_{1/2})TiO_3$ [F]	1B-a1	•		•	•	•				•	•				•	•	
$(K_{1/2}Bi_{1/2})TiO_3$ [F]	1B-a2	•		•	•	•											

Complex perovskite-type oxides

1B

 $A^{2+}(M_{1/2}^{2+}M'_{1/2}^{6+})O_3$ -type

1B-b

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
$A(M_{1/2}Te_{1/2})O_3$ (A = Ca, Sr, Cd; M = Mg, Co, Mn, Zn, Ca, Sr, Cd)	1B-b1	•															
$Ba(Mg_{1/2}Te_{1/2})O_3$ [F]	1B-b2	•		•		•											
$Ba(Ca_{1/2}Te_{1/2})O_3$	1B-b3	•		•		•											
$Ba(Mn_{1/2}Te_{1/2})O_3$	1B-b4	•		•		•											
$Ba(Co_{1/2}Te_{1/2})O_3$	1B-b5	•		•		•											
$Ba(Cd_{1/2}Te_{1/2})O_3$	1B-b6	•		•		•											
$Pb(Mg_{1/2}Te_{1/2})O_3$	1B-b7	•		•		•											
$Pb(Ca_{1/2}Te_{1/2})O_3$	1B-b8	•		•		•											
$Pb(Mn_{1/2}Te_{1/2})O_3$	1B-b9	•		•		•											
$Pb(Co_{1/2}Te_{1/2})O_3$	1B-b10	•		•		•											
$Pb(Ni_{1/2}Te_{1/2})O_3$	1B-b11	•		•		•											
$Pb(Zn_{1/2}Te_{1/2})O_3$	1B-b12	•		•		•											
$Pb(Cd_{1/2}Te_{1/2})O_3$	1B-b13	•		•	•	•											
$Pb(Mg_{1/2}W_{1/2})O_3$ [A]	1B-b14	•	•	•	•	•	•		•	•						•	
$Pb(Cd_{1/2}W_{1/2})O_3$ [(A)]	1B-b15	•	•	•	•	•											
$Pb(Mn_{1/2}W_{1/2})O_3$ [(A)]	1B-b16	•		•		•						•	•				
$Pb(Co_{1/2}W_{1/2})O_3$ [F, A]	1B-b17	•	•	•	•	•				•			•		•		
$Pb(Mn_{1/2}R_{1/2})O_3$ [(A)]	1B-b18	•		•	•							•	•				

Complex perovskite-type oxides 1B

1B

A²⁺(M_{1/2}³⁺M_{1/2}¹⁵⁺)O₃-type **1B-c**

1B-c

[illegible]

Complex perovskite-type oxides

1B

 $A^{2+}(M_{1/3}^{2+}M_{2/3}^{5+})O_3$ -type

1B-d

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
$Cd(Mg_{1/3}Nb_{2/3})O_3$	1B-d1	•	•	•		•											
$Cd(Co_{1/3}Nb_{2/3})O_3$	1B-d2	•	•	•													
$Cd(Ni_{1/3}Nb_{2/3})O_3$	1B-d3	•	•	•		•											
$Pb(Mg_{1/3}Nb_{2/3})O_3$ [F]	1B-d4	•	•	•	•	•	•	•	•	•	•	•			•		•
$Pb(Zn_{1/3}Nb_{2/3})O_3$ [F]	1B-d5	•	•	•	•	•		•	•	•						•	
$Pb(Cd_{1/3}Nb_{2/3})O_3$ [F]	1B-d6	•	•	•		•						•					
$Pb(Co_{1/3}Nb_{2/3})O_3$ [F]	1B-d7	•	•	•		•											
$Pb(Ni_{1/3}Nb_{2/3})O_3$ [F]	1B-d8	•	•	•	•	•				•							
$Pb(Mg_{1/3}Ta_{2/3})O_3$ [F]	1B-d9	•	•	•		•				•							
$Pb(Co_{1/3}Ta_{2/3})O_3$ [F]	1B-d10	•	•	•		•											
$Pb(Ni_{1/3}Ta_{2/3})O_3$ [F]	1B-d11	•	•	•		•											

Complex perovskite-type oxides1B

$A^{2+}(M_{2/3}^{3+}M_{1/3}^{6+})O_3$ -type1B-e

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
$Pb(Fe_{2/3}M_{1/3})O_3$ (M = Te, Mo)	1B-e1	•				•											
$Pb(Mn_{2/3}M_{1/3})O_3$ (M = Te, Mo)	1B-e2					•											
$Pb(Sc_{2/3}Te_{1/3})O_3$	1B-e3					•											
$Pb(Sc_{2/3}W_{1/3})O_3$	1B-e4					•											
$Pb(Mn_{2/3}W_{1/3})O_3$ [(A)]	1B-e5	•		•		•						•	•				
$Pb(Fe_{2/3}W_{1/3})O_3$ [F]	1B-e6	•	•	•		•							•	•			
$Pb(Fe_{2/3}U_{1/3})O_3$	1B-e7	•	•	•		•							•	•			

Complex perovskite-type oxides	1B
A(M,M',M'')O ₃ -type	1B-f

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
Pb(Cd _{4/9} Nb _{2/9} W _{1/3})O ₃	1B-f1	•		•		•											
Pb(Sc _{5/9} Nb _{1/3} W _{1/9})O ₃	1B-f2	•		•		•											

Complex perovskite-type oxides1B

(A,A')(M,M')O₃-type1B-g

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
(K _{3/4} Bi _{1/4})(Mg _{1/6} Nb _{5/6})O ₃	1B-g1	•		•		•											
(K _{3/4} Bi _{1/4})(Zn _{1/6} Nb _{5/6})O ₃	1B-g2	•	•	•	•	•			•	•		•					
(K _{3/4} Bi _{1/4})(Mg _{1/6} Ta _{5/6})O ₃	1B-g3	•		•		•											
(K _{1/3} Pb _{2/3})(Zn _{2/9} Nb _{7/9})O ₃	1B-g4	•		•	•	•				•							

Solid solutions with perovskite-type oxides as end members 1C

Solid solutions with simple perovskite-type oxides as end members

1C-a

[illegible]

Solid solutions with perovskite-type oxides as end members	1C
Solid solutions with simple perovskite-type oxides as end members	1C-a

Solid solutions with simple perovskite-type oxides as end members	1C-a
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Solid solutions with simple perovskite-type oxides as end members	1C-a
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[illegible]

Solid solutions with perovskite-type oxides as end members	1C
Solid solutions with simple perovskite-type oxides as end members	1C-a

1C-a

[illegible]

Solid solutions with perovskite-type oxides as end members 1C

Solid solutions with simple perovskite-type oxides as end members	1C-a
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1C-a

100

Solid solutions with perovskite-type oxides as end members	1C
Solid solutions with complex perovskite-type oxides as end members	1C-b

1C-b

[illegible]

Solid solutions with perovskite-type oxides as end members	1C
Solid solutions with complex perovskite-type oxides as end members	1C-b

Solid solutions with complex perovskite-type oxides as end members	1C-b
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Solid solutions with complex perovskite-type oxides as end members	1C-b
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[illegible]

Solid solutions with perovskite-type oxides as end members	1C
Solid solutions with complex perovskite-type oxides as end members	1C-b

Solid solutions with complex perovskite-type oxides as end members	1C-b
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Solid solutions with complex perovskite-type oxides as end members	1C-b
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Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellaneous
PbZrO ₃ –Pb(Fe _{1/2} Ta _{1/2})O ₃	1C-b61	•															
PbZrO ₃ –Pb(In _{1/2} Nb _{1/2})O ₃	1C-b62	•															
PbZrO ₃ –Pb(Yb _{1/2} Nb _{1/2})O ₃	1C-b63					•											
PbZrO ₃ –Sr(Cu _{1/3} Nb _{2/3})O ₃	1C-b64			•		•											
PbZrO ₃ –Ba(Ca _{1/3} Nb _{2/3})O ₃	1C-b65	•				•											
PbZrO ₃ –Pb(Mg _{1/3} Nb _{2/3})O ₃	1C-b66					•											
PbZrO ₃ –Pb(Zn _{1/3} Nb _{2/3})O ₃	1C-b67	•		•		•		•									
PbZrO ₃ –Pb(Fe _{2/3} U _{1/3})O ₃	1C-b68	•		•	•	•											
PbHfO ₃ –Pb(Sc _{1/2} Nb _{1/2})O ₃	1C-b69	•															
BiFeO ₃ –Pb(Mg _{1/2} W _{1/2})O ₃	1C-b70	•		•		•											
BiFeO ₃ –Pb(Fe _{1/2} Nb _{1/2})O ₃	1C-b71			•		•	•						•				
BiFeO ₃ –Sr(Sn _{1/3} Mn _{2/3})O ₃	1C-b72	•		•										•			
(Na _{1/2} Bi _{1/2})TiO ₃ –(K _{1/2} Bi _{1/2})TiO ₃	1C-b73	•		•		•											
Sr(Fe _{2/3} Te _{1/3})O ₃ –Pb(Fe _{2/3} Te _{1/3})O ₃	1C-b74					•											
Ba(Sc _{1/2} Nb _{1/2})O ₃ –Pb(Sc _{1/2} Nb _{1/2})O ₃	1C-b75					•			•								
Ba(Fe _{1/2} Nb _{1/2})O ₃ –Pb(Fe _{1/2} Nb _{1/2})O ₃	1C-b76					•											
Ba(In _{1/2} Nb _{1/2})O ₃ –Pb(In _{1/2} Nb _{1/2})O ₃	1C-b77					•											
Ba(In _{1/2} Ta _{1/2})O ₃ –Pb(In _{1/2} Ta _{1/2})O ₃	1C-b78					•											
Ba(Yb _{1/2} Nb _{1/2})O ₃ –Pb(Yb _{1/2} Nb _{1/2})O ₃	1C-b79	•				•											
Ba(Mg _{1/3} Nb _{2/3})O ₃ –Pb(Mg _{1/3} Nb _{2/3})O ₃	1C-b80					•											
Ba(Zn _{1/3} Nb _{2/3})O ₃ –Pb(Zn _{1/3} Nb _{2/3})O ₃	1C-b81			•													
Ba(Cd _{1/3} Nb _{2/3})O ₃ –Pb(Cd _{1/3} Nb _{2/3})O ₃	1C-b82					•											
Pb(Al _{1/2} Nb _{1/2})O ₃ –Pb(Sc _{1/2} Nb _{1/2})O ₃	1C-b83					•											
Pb(Mg _{1/2} Te _{1/2})O ₃ –Pb(Mg _{1/2} W _{1/2})O ₃	1C-b84	•		•		•											
Pb(Mg _{1/2} W _{1/2})O ₃ –Pb(Fe _{1/2} Nb _{1/2})O ₃	1C-b85	•				•											
Pb(Mg _{1/2} W _{1/2})O ₃ –Pb(Fe _{1/2} Ta _{1/2})O ₃	1C-b86	•		•		•											
Pb(Mg _{1/2} W _{1/2})O ₃ –Pb(Mg _{1/3} Nb _{2/3})O ₃	1C-b87	•				•		•									
Pb(Mg _{1/2} W _{1/2})O ₃ –Pb(Fe _{2/3} W _{1/3})O ₃	1C-b88					•							•				
Pb(Sc _{1/2} Nb _{1/2})O ₃ –Pb(Sc _{1/2} Sb _{1/2})O ₃	1C-b89					•											
Pb(Sc _{1/2} Nb _{1/2})O ₃ –Pb(Sc _{1/2} Ta _{1/2})O ₃	1C-b90		•			•											

Solid solutions with perovskite-type oxides as end members	1C
Solid solutions with complex perovskite-type oxides as end members	1C-b

Solid solutions with perovskite-type oxides as end members	1C
Solid solutions with complex perovskite-type oxides as end members	1C-b

Solid solutions with perovskite-type oxides as end members	1C
Solid solutions with complex perovskite-type oxides as end members	1C-b

[illegible]

Solid solutions with perovskite-type oxides as end members	1C
Ternary solid solutions, etc. with perovskite type oxides as constituents	1C-c

1C-c

[illegible]

Solid solutions with perovskite-type oxides as end members 1C

Ternary solid solutions, etc. with perovskite type oxides as constituents	1C-c
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1C-c

[illegible]

Solid solutions with perovskite-type oxides as end members 1C

Ternary solid solutions, etc. with perovskite type oxides as constituents

1C-c

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
$\text{PbTiO}_3\text{--PbZrO}_3\text{--Sr}(\text{Li}_{2/5}\text{W}_{3/5})\text{O}_3$	1C-c46							•	•								
$\text{PbTiO}_3\text{--PbZrO}_3\text{--Sr}_x\text{Nb}_{4x/5}\text{O}_3$	1C-c47	•		•		•											
$\text{PbTiO}_3\text{--PbZrO}_3\text{--Ba}_x\text{Nb}_{4x/5}\text{O}_3$	1C-c48	•		•		•				•							
$\text{PbTiO}_3\text{--PbZrO}_3\text{--Sr}(\text{La}_{1/2}\text{Nb}_{1/2})\text{O}_3$	1C-c49					•		•		•							
$\text{PbTiO}_3\text{--PbZrO}_3\text{--In}(\text{Li}_{3/5}\text{W}_{2/5})\text{O}_3$	1C-c50					•											
$\text{PbTiO}_3\text{--PbZrO}_3\text{--PbNb}_2\text{O}_6$	1C-c51	•				•		•									
$\text{PbTiO}_3\text{--Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$	1C-c52	•															
$\text{PbTiO}_3\text{--LaMnO}_3\text{--LaMO}_3$ (M = Fe, Co, Ni, Cr)	1C-c53	•				•							•				
$\text{PbTiO}_3\text{--PbZrO}_3\text{--Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$	1C-c54					•											
$\text{PbTiO}_3\text{--PbZrO}_3\text{--Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$	1C-c55	•						•									
$\text{PbTiO}_3\text{--PbZrO}_3\text{--Pb}(\text{Mn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{Pb}(\text{M}_{1-\alpha}^{\text{I}}\text{M}_{\alpha}^{\text{II}})\text{O}_3$	1C-c56					•		•									
$(\text{Pb},\text{Ba})[(\text{Mg},\text{Nb}),(\text{Zn},\text{Nb}),\text{Ti}]\text{O}_3$	1C-c57	•				•											
$\text{PbTiO}_3\text{--Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$	1C-c58					•											
$\text{PbTiO}_3\text{--Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$	1C-c59					•											
$\text{Ba}(\text{Ti},\text{Zr})\text{O}_3\text{--Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$	1C-c60					•											
$\text{PbTiO}_3\text{--Pb}(\text{Fe}_{2/3}\text{W}_{1/3})\text{O}_3$ – $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$	1C-c61	•				•											
$\text{Pb}(\text{W}_{1/3}\text{Fe}_{2/3})\text{O}_3\text{--Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$ – $\text{Pb}_5\text{Ge}_3\text{O}_{11}$	1C-c62					•											
$\text{PbTiO}_3\text{--PbHfO}_3\text{--PbO}\cdot\text{SnO}_2$	1C-c63	•															
$\text{PbTiO}_3\text{--PbHfO}_3$ modified with La (PLHT)	1C-c64	•				•		•		•							
$\text{BaZrO}_3\text{--PbZrO}_3\text{--BaNb}_2\text{O}_6\text{--PbNb}_2\text{O}_6$	1C-c65	•															
PLZT	1C-c66	•	•	•	•	•	•	•	•	•	•	•	•			•	•
$[\text{Pb}_{1-x}(\text{La}_{0.5}\text{Li}_{0.5})_x](\text{Zr}_y\text{Ti}_{1-y})\text{O}_3$ (PLLZT)	1C-c67	•	•	•		•				•							
Solid solutions related to PLZT	1C-c68					•				•							

LiNbO ₃ family	2
Pure compounds	2A

Substance	No.	Fundamentals	Material preparation	Crystal structure	Lattice distortion	Dielectric properties	Thermal properties	Electromechanical	Elastic properties	Optical properties	Light scattering	Conduction	Magnetism	NMR, ESR	Local structures	Domains	Miscellanea
LiNbO ₃ [F]	2A-1	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
LiTaO ₃ [F]	2A-1	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•

LiNbO₃ family	2
Solid solutions	2B

LiNbO₃ family	2
Solid solutions	2B

Solid solutions	2B
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Solid solutions	2B
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How to find desired data

The fastest way to search for a compound is to use the substance index. Please follow the link "Main Index" above to enter the main menu of the substance index. A list of all substance groups in this part of subvolume III/36A1 will appear. Click the group which the desired substance belongs to. A detailed list of all substances in this group is shown. Then click on the substance number on the right to get the corresponding substance data.

You may navigate back and forth in the history of the already visited pages and menus by means of the icons in the menu bar of the Acrobat Reader:



Browsing

You can either go from page to page or use the finder. In the first case you can read the first page, the previous, the next and the last page, respectively, by clicking one of the icons in the menu bar:



Searching names or gross formulas



If you are interested in all structures which were studied by a specific author, you click the icon with the large binocular (left) and write the name of the author into a search mask, for example **Smith**. Then the first document of this author is shown and the retrieved search terms are highlighted. The icons pictured on the right can be activated in order to go to the previous or next entry with the retrieved string.



You may typewrite either usual chemical formula (e.g. BaTiO₃ with no blanks for BaTiO₃) alphabetically arranged chemical formula (e.g. BaO₃Ti), commonly used name (barium titanate) or abbreviated name (BT). Pure substance and solid solution are distinguished by a hyphen. For instance, BaTiO₃ means pure BaTiO₃, BaTiO₃- corresponds to solid solutions with BaTiO₃ as an end material, BaTiO₃-PbTiO₃- to solid solutions containing BaTiO₃ and PbTiO₃.

The search function enables the user to find also substances and gross formulas with a specific name or formula segment. If the string **titanate** is entered in the search mask, only compound names are retrieved, which contain the desired string as a separate word. If the search term is truncated such as ***titanate**, chemical names like Bariumtitanate are found. Moreover left and bothside truncation is possible to narrow the search. For more complex searches, please use the exclusive Online Help of the Acrobat Reader®.

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