Numerical Data Sheet for Superconducting Materials, MDR SuperCon Datasheet User's Guide

DATASHEET OVERVIEW

USAGE RULES

SuperCon, which had been published using a Graphical User Interface (GUI), has been replaced by a datasheet publication due to the aging database application. The platform for publication is now MDR (Materials Data Repository, https://mdr.nims.go.jp/), newly renamed "MDR SuperCon Datasheet". A DOI will be assigned for each update of the data and for version management. Use of the data will be in accordance with MDR's Terms of Use, and when publishing your results, please use the following sample text to clearly state the DOI of the data you have used, and please include the appropriate provenance:

(Example of statement) This study used the MDR SuperCon Datasheet (doi), a numerical data sheet for superconducting materials, which is made public by the National Institute for Materials Science (NIMS).

NIMS does not guarantee the quality of the data contained in this datasheet and is not responsible for any problems that may result with the use of this datasheet.

BASIC DATA STRUCTURES

The MDR SuperCon Datasheet consists of the following files:

Readme (common)

- Metadata supercon-rm-mdr-schema.yml and supercon-rm-mdr-schema.json
- Read me SuperCon_ReadMe.pdf and SuperCon_ReadMe_en.pdf, ReadmeTbl.xlsx
- Preview data primary.tsv
- Thumbnail XXXXX.png

Each version

- Metadata YYMMDD_MDR_supercon-mdr-schema.yml and YYMMDD_MDR_supercon-mdr-schema.json
- Data Tables YYMMDD_MDR_OAndM.txt and YYMMDD_MDR_Organic.txt
- Figure/data Figure.zip and data.zip

Readme (common)

Metadata is a machine-readable file that summarizes the basic information of this datasheet and is available in YAML and JSON formats. There is no difference in content between the two formats.

Read me is this document, its English version, and an Excel file of the tables used in these documents.

Preview data is a Simple Dataset for Machine Learning of SueprCon. This dataset is a summary of the Tc-related data in this datasheet. The actual file name is primary.tsv.

The thumbnail is an example of a systematic dataset derived from this datasheet.

Each version

Metadata is a machine-readable file that summarizes the basic information of each version and is available in YAML and JSON formats. There is no difference in content between the two formats.

The data tables are divided into two parts: "Oxide & Metallic (YYMMDD_MDR_OAndM.txt)" and "Organic (YYMMDD_MDR_Organic.txt)". Whenever the data is updated, the version information (DOI) is revised. Although it is possible to select an older version, we recommend that you use the latest version. The first three rows of each column show, from the top, the data number, label, and symbol. In the conventional SuperCon, only the symbols shown in the third row could be seen in the GUI. In order to improve human readability, we have introduced labels. In this guide, each column will be denoted by "data-number-label-symbol".

Figure/data are the figures and their text data conventionally published at SuperCon.

Below is a guide to the data tables and Figure/data in particular.

DATA TABLE: DATA SCREENING

Although the entries in the table do not differ from those in the conventional SuperCon database, the GUI search function is no longer available, so users of the table will need to screen the data in order to find the target data.

This section provides information on operations corresponding to the SuperCon top search screen that you have been using in the past.

OXIDE & METALLIC

The Oxide & Metallic Search System was as shown in Figure 1.

(1) Select Input Search Element

For searches corresponding to this function, the equivalent operation can be achieved by extracting lines containing the symbol of the target element from 6-chemical formulaelement. For single elements, it is convenient to use 7-element name of materials-ma1 to extract lines with the target element symbol.

(2) Select Structure

① Quick Search Oxide

This function was conventionally used to screen specifically for 31 representative oxide structures, but in this datatable, structures other than 31 can also be extracted by using the line with the desired structure in 67-common name of structure-str3. For screening of oxides, it is useful to exclude blank rows in 27-oxygen-mo1.

2 Quick Search Metallic

This function was conventionally used to screen specifically for 16 representative metal structures, however, in this datatable, it is possible to extract structures other than the 16 by extracting the rows with the desired structure in 67-common name of structure-str3.

③ Select from all

This function is equivalent to extracting the line with the desired structure from all 67common-name-of-structure-str3 entries.

- (3) Select Property
 - 1 Property

This function was conventionally performed by selecting from 17 preset properties, however, it is now possible to screen all recorded properties and measurement methods (about 110 in total) in the data list to be described later, by excluding blank lines.

2 Year

The function can be accomplished by using 31-publication-year-of-reference-year or 194-publication-year-of-reference-year in the datatable.

③ Detail

This function used to perform faceted searches in 92 items. As described in ① Property, all data, including measurement methods, etc., are now available.

As described here, the 67-common name of structure-str3 plays an important role in overviewing the data. In this item, the 4-digit system like Bi2212 is adopted in general, and popular names such as ladder (LD), infinite layer (IL), etc. are also included. For other than oxides, structure type (Pearson handbook) is adopted in principle, and fullrene, chevrel, skutterudite, etc., which are frequently used, are also employed. Materials that are difficult to classify are left blank.

ne Oxide & Metallic Menu Organic Menu Help
OXIDE & METALLIC Search System
elect Input search element
Element : OMATTER
elect Structure
Duick search : OXIDE 🖲 📉 V Metallic O 🔽 V
Select from all : O
elect Property
Property: ALL -
Before : Year : After :
from to
Detail :
Search Reset
Figure. 1 Oxide & Metallic Search System image in conventional SuperCon (for

reference)

ORGANIC

The Organic Search System was as shown in Figure 2.

(1) Structure

The search corresponding to this function can equivalently be performed by extracting the rows containing the target structure in 6-structure-str. Since the conventional 37 selections covered all the recorded structures, it is equivalent to using 6-structure-str for screening this table.

(2) Property

Although only the three types of Tc, Hc, and SP were conventionally subject to screening, this function is available by excluding blank lines for all recorded properties and measurement methods (about 30 types in total) in the data list described later.

we Ocide & Metallic Menu Organic Kenu Help Organic Search System	
Structure : V Anion : V Property : ALL V	
Search Reset	

Figure 2 Organic Search System image in conventional SuperCon (for reference)

per DB	Label	Description	Category	Data t
1 num	data number	data number	Material	Intege
2 refno	reference number	reference number	Material	String
3 commt	comment	Comment	Material	String
4 name	common formula of materials	common formula of materials	Material	String
6 element	chemical formula	chemical formula	Material	String
7 ma1	element name of materials	element name of materials	Material	String
8 ma2	composition of MA1	composition of material 1	Material	Float
9 mb1	element name of materials	element name of materials	Material	String
10 mb2	composition of MA2	composition of material 2	Material	Float
11 mc1	element name of materials	element name of materials	Material	String
12 mc2				Float
	composition of MA3	composition of material 3	Material	
13 md1	element name of materials	element name of materials	Material	String
14 md2	composition of MA4	composition of material 4	Material	Float
15 me1	element name of materials	element name of materials	Material	String
16 me2	composition of MA5	composition of material 5	Material	Float
17 mf1	element name of materials	element name of materials	Material	String
18 mf2	composition of MA6	composition of material 6	Material	Float
19 mg1	element name of materials	element name of materials	Material	String
20 mg2	composition of MA7	composition of material 7	Material	Float
21 mh1	element name of materials	element name of materials	Material	String
22 mh2	composition of MA8	composition of material 8	Material	Float
23 mi1	element name of materials	element name of materials	Material	String
24 mi2			Material	
	composition of MA9	composition of material 9		Float
25 mj1	element name of materials	element name of materials	Material	String
26 mj2	composition of MA10	composition of material 10	Material	Float
27 mo1	oxygen	oxygen	Material	String
28 mo2	common formula of oxygen	common formula of oxygen	Material	String
29 oz	measured value of Oxygen content	measured value of Oxygen content	Material	Float
30 shape	shape	*sample form (1: single phase(bulk),2: multi phase (bulk),3: single crystal(bulk),4:film,5:film(single))	Material	Integ
31 year	publication year of reference	year of reference	Material	Integ
33 ukai	unit of KAIZERO	unit of KAIZERO		
34 kaizero	temperature independent term in	temperature independent term in susceptibility	Magnetic property Magnetic property	Strin: Doub
	susceptibility			
35 ucc	unit of CURIEC	unit of CURIEC	Magnetic property	Strin
36 curiec	Curie constant	Curie constant	Magnetic property	Doub
37 umoment	unit of MOMENT	unit of MOMENT	Magnetic property	Strin
38 moment	magnetic moment per formula	magnetic moment per formula	Magnetic property	Float
39 curiet	Curie temperature	Curie temperature	Magnetic property	Float
40 neelt	Neel temperature	Neel temperature	Magnetic property	Float
41 dens	density (gcm-3)	Density	Mechanical property	Float
42 uhv	unit of hardness	unit of hardness	Mechanical property	Strin
45 hv300	hardness at 300 K	hardness at 300K	Mechanical property	Float
46 uye	unit of Young's modulus	unit of Young's modulus	Mechanical property	String
40 uye 47 yehe	Young's modulus at 4.2 K	Young's modulus at 4.2K	Mechanical property	Doub
49 ye300	Young's modulus at 300 K	Young's modulus at 300K	Mechanical property	Doub
50 ug	unit of shear modulus	unit of shear modulus	Mechanical property	String
51 ghe	shear modulus at 4.2 K	shear modulus at 4.2K	Mechanical property	Float
53 g300	shear modulus at 300 K	shear modulus at 300K	Mechanical property	Float
54 ub	unit of bulk modulus	unit of bulk modulus	Mechanical property	Strin
55 bhe	unit of bulk modulus at 4.2 K	unit of bulk modulus at 4.2K	Mechanical property	Float
57 b300	unit of bulk modulus at 300 K	unit of bulk modulus at 300K	Mechanical property	Float
58 pohe	Poisson ratio at 4.2 K	Poisson ratio at 4.2K	Mechanical property	Float
60 po300	Poisson ratio at 300 K	Poisson ratio at 300K	Mechanical property	Float
61 usv	unit of sound velocity	unit of sound velocity	Mechanical property	Strin
62 svhe	sound velocity at 4.2 K	sound velocity at 4.2K	Mechanical property	Doub
64 sv300		sound velocity at 4.2K	Mechanical property	
	sound velocity at 300 K			Doub
65 svfig	figure number for SV(T)	figure number for SV(T)	Mechanical property	String
66 str1	*crystal structure, symmetry	*crystal structure, symmetry (1=cubic,2=tetragonal,3=orthorhombic,4=monoclinic,5=tri	Structure	Integ
67 1 9		clinic,6=trigonal,7=hexagonal)	0	0.1
	common name of structure	*common name of structure	Structure	String
67 str3				
67 str3 68 spaceg	space group	space group	Structure	String
	space group international table number	space group international table number	Structure Structure	String Intege

Details of data entries (Duplicate items and empty data items have been deleted.) Oxide & Metallic

		h		-	
	lata	lattice constant a	lattice constant a	Structure	Float
	latb	lattice constant b	lattice constant b	Structure	Float
73	latc	lattice constant c	lattice constant c	Structure	Float
			*method of analysis for structure (1.X-ray crystallography		
74	analm	*method of analysis for structure	2.Neutron crystallography 3.Powder x-ray diffraction	Structure	String
			4.Powder neutron diffraction 5.Electron diffraction)		
75	model	figure number of structure model	figure number of structure model	Structure	String
76	udldt	unit of D(L)DT	unit of DLDT	Structure	String
77	dadt	temperature dependence of LATA	temperature dependence of LATA	Structure	Float
78	dbdt	temperature dependence of LATB	temperature dependence of LATB	Structure	Float
79	dcdt	temperature dependence of LATC	temperature dependence of LATC	Structure	Float
	udldp	unit of D(L)DP	unit of DLDP	Structure	String
	dadp	pressure dependence of LATA	pressure dependence of LATA	Structure	Float
	dbdp	pressure dependence of LATA	pressure dependence of LATB	Structure	Float
			pressure dependence of LATD		
	dcdp	pressure dependence of LATC		Structure	Float
	strcmt	comments for structure	comment for structure	Structure	String
	utc	unit of Tc	unit of Tc	Superconductivity	String
86		transition temperature $(R = 0)$	transition temperature (R=0)	Superconductivity	Float
87	t2	transition temperature (mid point)	transition temperature (mid point)	Superconductivity	Float
88	t3	transition temperature ($R = 100\%$)	transition temperature (R=100%)	Superconductivity	Float
89	tcsus	Tc from susceptibility measurement	Tc from susceptibility measurement	Superconductivity	Float
00	ton	lowest temperature for measurement (not	lowest temperature for measurement (not	Superconduction	Floct
90	tcn	superconducting)	superconducting)	Superconductivity	Float
91	tcwidth	transition width for resistive transition	transition width for resistive transition	Superconductivity	Float
92	tc	Tc (of this sample) recommended	Tc (of this sample) recommended	Superconductivity	Float
	tcfig	figure number for Tc(p, x, etc)	figure number for Tc(p, x, etc)	Superconductivity	String
00	10115	inguise indition for the (p) of etc)	(1.magnetization, 2.ac susceptibility, 3.resistivity, 4.heat	Superconducting	0.1115
			capacity, 5.tunneling, 6.infrared spectroscopy, 7.thermal		
			conductivity, 8.Raman spectroscopy, 9.nuclear magnetic		
94	tcmeth	tc measurement method		Superconductivity	Integer
			resonance, 10.surface impedance, 11.neutron diffraction,		
			12.photoemission spectroscopy, 13.microwave		
			transmission, 14.0thers)		
95	udtcdp	unit of DTCDP	unit of DTCDP	Superconductivity	String
96	dtcdp	slope at $P = 0$ in Tc vs P plot	slope at P=0 in Tc vs P plot	Superconductivity	Float
97	pmax	maximum pressure applied	maximum pressure applied	Superconductivity	Float
98	isotope	alpha in Tc = A * M^(-alpha), isotope effect	alpha in Tc=A*M^(-alpha), isotope effect	Superconductivity	Float
99	isoel	isotope element	isotope element	Superconductivity	String
100	isorat	exchange ratio of isotope(%)	exchange ratio of isotope(%)	Superconductivity	String
101	dtc	DTC = Tc - Tc0 for isotope element	DTC=Tc-Tc0 for isotope element	Superconductivity	Float
	vols	volume fraction of Meissner effect(%)	volume fraction of Meissner effect, unit=%	Superconductivity	Float
	uhc1	unit of Hc1	unit of Hc1	Superconductivity	String
105	differ	unitornei	method of Hc1 derivation (1.magnetization, 2.ac	Superconductivity	Sumg
			susceptibility, 3.resistivity, 4.heat capacity, 5.tunneling,		
104	mhc1	method of Hc1 derivation	6.infrared spectroscopy, 7.thermal conductivity, 8.Raman	Superconductivity	Integer
			spectroscopy, 9.nuclear magnetic resonance, 10.surface		
			impedance, 11.neutron diffraction, 12.photoemission		
			spectroscopy, 13.microwave transmission, 14.Others)		
105	hc1zero	Hc1 at 0 K for poly crystal	Hc1 at 0 K for poly crystal	Superconductivity	Float
106	phc1zero	Hc1 at 0 K for single crystal for H //ab-plane	Hc1 at 0 K for single crystal for H //ab plane	Superconductivity	Float
107	nhc1zero	Hc1 at 0 K for single crystal for H //c-axis	Hc1 at 0 K for single crystal for H //c-axis	Superconductivity	Float
	hc1t	Hc1 at given temperature for poly crystal	Hc1 at given temperature for poly crystal	Superconductivity	Float
		Hc1 at given temperature for single crystal			
109	phc1t	H//ab-plane	Hc1 at given temperature for single crystal H//ab-plane	Superconductivity	Float
110	nhc1t	Hc1 at given temperature for single crystal	Hc1 at given temperature for single crystal H//c-axis	Superconductivity	Float
		H//c-axis			-
	tempc1	measuring temperature	measuring temperature	Superconductivity	Float
	uhc2	unit of Hc2	unit of Hc2	Superconductivity	String
113	mhc2	method of Hc2 derivation	method of Hc2 derivation	Superconductivity	String
	hc2zero	Hc2 at 0 K for poly crystal	Hc2 at 0 K for poly crystal	Superconductivity	Float
114		Hc2 at 0 K for single crystal for H //ab-plane	Hc2 at 0 K for single crystal for H //ab plane	Superconductivity	Float
	phc2zero			0 1 11 11	Float
115	phc2zero nhc2zero	Hc2 at 0 K for single crystal for H //c-axis	Hc2 at 0 K for single crystal for H //c-axis	Superconductivity	
115 116	nhc2zero	Hc2 at 0 K for single crystal for H //c-axis Hc2 at given temperature for poly crystal			
115 116 117	nhc2zero hc2t	Hc2 at given temperature for poly crystal	Hc2 at given temperature for poly crystal	Superconductivity	Float
115 116 117	nhc2zero	Hc2 at given temperature for poly crystal Hc2 at given temperature for single crystal			
115 116 117	nhc2zero hc2t	Hc2 at given temperature for poly crystal Hc2 at given temperature for single crystal H//ab-plane	Hc2 at given temperature for poly crystal	Superconductivity	Float
115 116 117 118	nhc2zero hc2t	Hc2 at given temperature for poly crystal Hc2 at given temperature for single crystal H//ab-plane Hc2 at given temperature for single crystal	Hc2 at given temperature for poly crystal	Superconductivity	Float
115 116 117 118 119	nhc2zero hc2t phc2t	Hc2 at given temperature for poly crystal Hc2 at given temperature for single crystal H//ab-plane	Hc2 at given temperature for poly crystal Hc2 at given temperature for single crystal H//ab-plane	Superconductivity Superconductivity	Float Float

123 dh.2dt -stope in H2 vs T at Tc for poly crystal -stope in H2 vs T at Tc for poly crystal 124 pht.2dt -stope in H2 vs T at Tc for poly crystal -stope in H2 vs T at Tc for single crystal for H/Ab plane 125 ndh.2dt -stope in H2 vs T at Tc for single crystal for H/Ab plane -stope in H2 vs T at Tc for single crystal for H/Ab plane 126 ndh.2dt -stope in H2 vs T at Tc for single crystal for H/Ab plane -stope in H2 vs T at Tc for single crystal for H/Ab plane 127 ndhr difficition or method for Hirr Supper 128 ucohere unit of COHERE 128 ucohere unit of COHERE unit of COHERE Supper 128 ucohere 128 ucohere unit of COHERE unit of COHERE Supper 128 ucohere Supper 128 ucohere 129 ncohere coherence length at 0 K for single crystal for H/Ab plane Supper 128 ucohere Supper 128 ucohere Supper 128 ucohere 124 ncohere coherence length at 0 K for single crystal for H/Ab plane Supper 128 ucohere Supper 128 ucohere 124 ncohere unit of PENET Supper 128 ucohere Supper 128 ucohere Supper 128 ucohere 124 npenet unit of PENET unit of PENET Supper 128 ucohere Supper 128 ucohere Supper 128 ucoh	121 u	udhc2dt	unit of dHc2/dT	unit of dHc2/dT	Superconductivity	String
124 pde/241	122 r	ndhc2dt	method of dHc2/dT derivation	susceptibility, 3.resistivity, 4.heat capacity, 5.tunneling, 6.infrared spectroscopy, 7.thermal conductivity, 8.Raman spectroscopy, 9.nuclear magnetic resonance, 10.surface impedance, 11.neutron diffraction, 12.photoemission	Superconductivity	Integ
124 pde/241	123 0	thc2dt	-slope in Hc2 vs T at Tc for poly crystal		#N/A	#N
126 nhc2dt //de.plane lope in HC2 vs 1 at 1 c for single crystal for H //c-asis Stope 126 nhc2dt //c-asis Stope -stope in HC2 vs 1 at 1 c for single crystal for H //c-asis Stope 127 nhift figure number for Hin(1), inversibility field Stope Stope Stope 128 number of win(1), inversibility field Stope Stope Stope Stope 130 cohere coherence length at 0 K for single crystal for H Coherence length at 0 K for single crystal for H Coherence length at 0 K for single crystal for H Coherence length at 0 K for single crystal for H Stope 131 prohere //d-plane unit of PENET Stope Stope 133 upenet unit of PENET Stope Stope Stope Stope Stope 133 upenet unit of PENET Stope Stope<	120 0	110201				
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127 mhr difinition or method for Hire Superior 128 ucohere unit of COHERE Superior 130 nochere coherence length at 0 K for single crystal for H Superior 131 prohere (Abe-plane coherence length at 0 K for single crystal for H Superior 132 monther (Abe-plane unit of FENET Superior Superior 132 monther (Abe-plane unit of FENET Superior Superior Superior 133 mpenet method of FENET derivation Superior	125 r	ndhc2dt		-slope in Hc2 vs T at Tc for single crystal for H //c-axis	Superconductivity	Float
128 ucohere unit of COHERE unit of COHERE Super 129 mochere method of COHERE derivation Super 130 ochere coherence length at 0 K for poly crystal Super 131 pochere coherence length at 0 K for poly crystal coherence length at 0 K for single crystal for H //ab plane Super 132 nobere coherence length at 0 K for single crystal for H //ab plane Super 133 upenet unit of PENET unit of PENET super 136 penet penetration depth at 0 K for poly crystal Super 137 mpenet penetration depth at 0 K for poly crystal Super 138 ugap unit of energy gap unit of energy gap Super 138 ugap unit of energy gap unit of energy gap Super 139 gape energy gap at 0 K, 2detta(0)/kTc Super Super 140 gapenet method of measuring energy gap at 0 K, 2detta(0)/kTc Super Super 141 gapmeth method of measuring energy gap at 0 K, 2detta(0)/kTc Super Super 142 griche Je at 2K, H = 0 T Je at 12K - 7K, H = 0 T Je at 12K - 7K, H = 0 T Je at 12K - 7K, H = 0 T Je at 12K - 7K - 1 // Bat 12K - 7K // H = 0 T Je	126 ŀ	hirfig	figure number for Hirr(T), irreversibility field	figure number for Hirr(T), irreversibility field	Superconductivity	String
129 method of COHERE derivation Support 130 coherence length at 0 K for poly crystal Coherence length at 0 K for single crystal for H //ab plane Support 131 pooher //ab-plane Coherence length at 0 K for single crystal for H //ab plane Support 132 nochere	127 r	nhirr	difinition or method for Hirr	difinition or method for Hirr	Superconductivity	String
130 cohere coherence length at 0 K for poly crystal Supe 131 prohere coherence length at 0 K for single crystal for H coherence length at 0 K for single crystal for H Supe 132 noohere coherence length at 0 K for single crystal for H Lab-plane coherence length at 0 K for single crystal for H Supe 135 penet penettation depth at 0 K for single crystal for H supe Supe Supe 136 penet penettation depth at 0 K for single crystal for H penettation depth at 0 K for single crystal for H Supe 137 npenet lab-plane unit of PENET penettation depth at 0 K for single crystal for H penettation depth at 0 K for single crystal for H penettation depth at 0 K for single crystal for H penettation depth at 0 K for single crystal for H penettation depth at 0 K for single crystal for H penettation depth at 0 K for single crystal for H supe 138 ugap unit of energy gap at 0 K, 2detata(0/kTc normarized energy gap at 0 K, 2detata(0/kTc Supe 140 gapene normarized energy gap at 0 K, 2detata(0/kTc Supe Supe 141 gapmat method of measuring energy gap at 4.2 K H = 0 T Jo at 4.2 K H = 0 T Jo at 4.2 K H = 0 T Supe	128 u	ucohere	unit of COHERE	unit of COHERE	Superconductivity	String
130 cohere coherence length at 0 K for poly crystal Supe 131 produce coherence length at 0 K for single crystal for H coherence length at 0 K for single crystal for H before the single crystal for H before crystepi che single crystal for H before crys	129 r	ncohere	method of COHERE derivation	method of COHERE derivation	Superconductivity	String
131 proheme coherence length at 0 K for single crystal for H coherence length at 0 K for single crystal for H Supe 132 nochere Lab-plane unit of FENET supe 133 upenet method of PENET unit of FENET supe 136 penet method of PENET unit of FENET supe 136 penet method of PENET method of PENET supe 137 penet penetration depth at 0 K for single crystal for H Lab-plane penetration depth at 0 K for single crystal for H//ab plane Supe 137 rpenet Lab-plane unit of energy gap unit of energy gap Supe 138 gapene normarized energy gap at 0 K, 2deta(0) energy gap at 0 K, 2deta(0)/KTc Supe 140 gapene normarized energy gap at 0 K, 2deta(0)/KTc Supe Supe 142 jche Jc at 4.2 K, H = 0 T Jc at 4.2 K, H = 0 T Jc at 4.2 K, H = 0 T Supe 143 jche Jc at 4.2 K, H = 0 T Jc at 4.2 K H = 0 T Supe Supe 144 giche <td>130 c</td> <td>ohere</td> <td>coherence length at 0 K for poly crystal</td> <td>coherence length at 0 K for poly crystal</td> <td>Superconductivity</td> <td>Float</td>	130 c	ohere	coherence length at 0 K for poly crystal	coherence length at 0 K for poly crystal	Superconductivity	Float
131 pochere //ab-plane coherence length at 0 K for single crystal for H coherence length at 0 K for single crystal for H coherence length at 0 K for single crystal for H coherence length at 0 K for single crystal for H superative 134 uppenet unit of PENET derivation method of PENET derivation superative						
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158 unit of thermopower unit of thermopower Therr 159 tp300 thermopower at 300 K thermopower at 300 K Therr 160 tp300n thermopower at 300 K for normal to ab-plane thermopower at 300 K for normal to ab-plane Therr 161 tp300p thermopower at 300 K for parallel to ab-plane thermopower at 300 K for parallel to ab-plane Therr 162 tpfig graph number for thermopower graph number for thermopower Therr 163 ures unit of resistivity unit of resistivity Norm 164 resistivity at 4.2 K for poly crystal resistivity at 4.2 K for single crystal for J//ab- plane resistivity at 4.2 K for single crystal for J//ab- plane Norm 166 creshe resistivity at 7.2 K for poly crystal resistivity at 4.2 K for single crystal for J//c- axis Norm 167 res7 resistivity at 7.7 K for poly crystal resistivity at 7.7 K for poly crystal Norm	157.	hofig		trank number for thermal our dusticity	Thormol process	Chul
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164 reshe resistivity at 4.2 K for poly crystal resistivity at 4.2 K for poly crystal Norm 165 abreshe resistivity at 4.2 K for single crystal for J//ab- plane resistivity at 4.2 K for single crystal for J//ab- plane resistivity at 4.2 K for single crystal for J//ab plane Norm 166 creshe resistivity at 4.2 K for single crystal for J//c- axis resistivity at 4.2 K for single crystal for J//c- resistivity at 77 K for poly crystal Norm 167 resistivity at 77 K for single crystal for J//ab- resistivity at 77 K for single crystal for J//ab- resistivity at 77 K for poly crystal Norm	162 t	pfig	graph number for thermopower	graph number for thermopower	Thermal property	Strin
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167 res77 resistivity at 77 K for poly crystal resistivity at 77 K for poly crystal Norm resistivity at 77 K for single crystal for 1//ab-	166 c	creshe	resistivity at 4.2 K for single crystal for J//c-	resistivity at 4.2K for single crystal for J//c-axis	Normal state property	Float
169 obree 77 resistivity at 77 K for single crystal for J//ab-	167 r	res77		resistivity at 77K for poly crystal	Normal state property	Float
168 abres77 resistivity at 77K for single crystal for J//ab plane Norm	168 a	abres77		resistivity at 77K for single crystal for J//ab plane	Normal state property	Float
169 cres77 resistivity at 77 K for single crystal for J//c-axis resistivity at 77K for single crystal for J//c-axis Norm			resistivity at 77 K for single crystal for J//c-axis		Normal state property Normal state property	Floa

171	abresn	resistivity at normal-T for single crystal for J//ab-plane	resistivity at normal-T for single crystal for J//ab plane	Normal state property	Float
172	cresn	resistivity at normal-T for single crystal for J//c-axis	resistivity at normal-T for single crystal for J//c-axis	Normal state property	Float
173	nort	normal temperature	normal temperature	Normal state property	Float
174	resrt	resistivity at RT for poly crystal	resistivity at RT for poly crystal	Normal state property	Float
175	abresrt	resistivity at RT for single crystal for J//ab- plane	resistivity at RT for single crystal for J//ab plane	Normal state property	Float
176	cresrt	resistivity at RT for single crystal for J//c-axis	resistivity at RT for single crystal for J//c-axis	Normal state property	Float
177	uhall	unit of RH300	unit of RH300	Normal state property	String
178	rh300	Hall coefficient at 300 K	Hall coefficient at 300K	Normal state property	Double
179	rh300n	Hall coefficient at 300 K for single, H//c-axis	Hall coefficient at 300K for single, H//c-axis	Normal state property	Double
180	rh300p	Hall coefficient at 300 K for single, H//ab- plane	Hall coefficient at 300K for single, H//ab-plane	Normal state property	Double
181	rhn	Hall coefficient for single, H//c-axis	Hall coefficient for single, H//c-axis	Normal state property	Double
182	field	magnetic field for Hall effect	magnetic field for Hall effect	Normal state property	Float
183	hallfig	graph number for Hall coefficient	graph number for Hall coefficient	Normal state property	String
184	ucarr	unit of carrier density	unit of carrier density	Normal state property	String
185	carrier	carrier density at 300 K	carrier density at 300K	Normal state property	Double
186	rawmat	raw materials	raw materials	Preparation	String
187	method	*preparation method	*preparation method (see the end of this table)	Preparation	Integer
188	prepcmt	preparation comments	preparation process	Preparation	String
189	f_prep	preparation method for film	preparation method for film	Preparation	String
190	subst	substrate	substrate	Preparation	String
191	target	target material	target material	Preparation	String
192	pr_commt	process comments			String
193	title	title of reference			String
194	year	publication year of reference	year of reference		Integer
195	month	month of reference			Integer
196	keyword	keyword			String
197	institute	institute			String
198	journal	journal			String
199	sample	sample			String
200	comments	comments			String

For "187 method *	preparation method"	
Method@ja	Method@en	
粉末焼結	powder sintering method	1=powder sintering method
ドクターブレード	doctor blade method	2=doctor blade method
スクリーン印刷	screen printing metod	3=screen printing metod
押しだし	extrusion method	4=extrusion method
フラックス法	flux method	5=flux method
TSSG法	Top Seeded Solution Growth method	6=Top Seeded Solution Growth method
FZ法	floating zone method	7=floating zone method
LPE法	Liquid Phase epitaxy	8=Liquid Phase epitaxy
メルトクエンチ法	melt-quench method	9=melt-quench method
ブリッジマン法	Bridgeman	10=Bridgeman
ゾルゲル法	sol-gel method	11=sol-gel method
有機酸塩法	organic acid base method	12=organic acid base method
サスペンジョン法	suspension method	13=suspension method
塗布法	spray coating method	14=spray coating method
プラズマスプレー	plasma spray method	15=plasma spray method
スパッター蒸着	sputter deposition	16=sputter deposition
蒸着法	vacuum deposition	17=vacuum deposition
CVD法	CVD method	18=CVD method
MOCVD法	Metal-Organic Chemical Vapor Deposition	19=Metal-Organic Chemical Vapor Deposition
VG法	Vapor Growth method	20=Vapor Growth method
MBE法	Molecular Beam Epitaxy method	21=Molecular Beam Epitaxy method

Organic

Number	Symbol	Label	Comments
1	num	data number	
2	refno	reference number	
3	name	common formula of materials	
4	fullname	full material name	
5	shape	shape	(1: single phase(bulk),2: multi phase (bulk),3: single crystal(bulk) ,4:film,5:film(single))
6	str	structure	
7	lata	lattice constant a	
8	latb	lattice constant b	
9	latc	lattice constant c	
10	alpha	lattice alpha	
11	beta	lattice beta	
12	lgamma	lattice gamma	
13	tc	Tc at pcrit	
14	tcmax	maximum to under pressure	
15	pmax	applied pressure for tcmax	
10		Critical pressure/GPa at which Tc can be	
16	pcrit	observed	
17	tcmeth	tc measurement method	 (1.magnetization, 2.ac susceptibility, 3.resistivity, 4.heat capacity, 5.tunneling, 6.infrared spectroscopy, 7.thermal conductivity, 8.Raman spectroscopy, 9.nuclear magnetic resonance, 10.surface impedance, 11.neutron diffraction, 12.photoemission spectroscopy, 13.microwave transmission, 14.Others)
18	isotope	alpha in Tc=A*M^(-alpha), isotope effect	
19	isoel	isotope element	
20	dtcdp	slope at P=0 in Tc vs P plot	
01		lowest temperature for measurement (not	
21	tcn	superconducting)	
22	hc1zero	Hc1 at 0 K for poly crystal	
23	hc2zero	Hc2 at 0 K for poly crystal	
24	dhc2dt	-slope in Hc2 vs T at Tc for poly crystal	
25	cohere	coherence length at 0 K for poly crystal	
26	penet	penetration depth at 0 K for poly crystal	
	glpar	Ginzburg-Landau order parameter	
	gap	energy gap at 0 K, delta(0)	
		method of measuring energy gap	(1.tunneling, 2.infrared spectroscopy, 3.thermal conductivity, 4.Raman spectroscopy, 5.AC susceptibility, 6.nuclear magnetic resonance, 7.surface impedance, 8.neutron diffraction, 9.ultraviolet photoemission spectroscopy, 10.microwave transmission)
30	gamma	coefficient of electronic specific heat	
31	Z	Debye temperature	
32	curiet	Curie temperature	
33	neelt	Neel temperature	
34	fig1	figure1 file name	
	fig2	figure2 filename	
	-	figure description	
	tbl	table file name	
		table description	
	commt	comment	
		figure1 data file name	
		f1 image file name	
		rf2 data file name	
		f2 image file name	
	title	title	
	year	year	
	month	month	
		keyword	
	institute		
	journal	journal	
50		sample	
		comments	

List of data sources

As a rule, the list consists of the journal name (3 letters) + Vol number (3dig) + page (4dig). (Example, PHC1710181)

Symbol	Journal name
ADV	Advanced Materials
APJ	Jpn.J.Appl.Phys.
APL	Appl.Phys.Lett.
APP	Appl.Phys.
CEM	J.Solid State Chem.
CRY	Cryogenics
CTR	Ceramic Transaction
EEE	IEEE Transactions on Magnetics
EPJ	Eur. Phys. J B
EPL	Europhys.Lett.
FEL	Ferroelectrics
HPA	Helvetica Phys.Acta
JAC	J.Alloys and Compound
JAP	J.Appl.Phys.
JCG	J.Cryst. Growth
JET	Sov. Phys.JETP
JIM	Materials Transactions
JJP	Jpn.J.Appl.Phys.Lett.
JMC	J.Mater.Chem.
JML	J.Mater.Sci.Lett.
JMP	Int.J.Mod.PhysB
JMR	J.Mater. Res.
JMS	J.Mater.Sci.
JP	J.Phys.:Cond.Matter
JPC	J.Phys.C
JPD	J.Phys.D: Appl.Phys.
JPL	J.Appl.Phys.Lett.
JPM	J.Phys. Conden. Mater
JPS	J.Phys.Soc.Japan
JSC	J.Solid State Chem.

JTL	JETP Lett.
LES	J.Less-Common Metals
LTP	J.Low Temp.Phys.
MMM	Journal of Magnetism and Magnetic Materials
MPL	Mod.Phys.Lett.B
MRB	Mater.Res.Bull.
MTL	Materials Letters (Mater.Lett.)
NAT	Nature
NMT	Nature[Materials]
NUC	Journal of Nuclear Materials
PCS	J.Phys.Chem.Solids
РНВ	Physica B
PHC	Physica C
PHF	J.Phys.F
PLA	Phys.Lett.A
PMB	Philos.Mag.B
PMM	Phys.Met.Metall
PRB	Phys.Rev.B
PRR	Phys.Rev.Research
PRX	Phys.Rev.X
PRL	Phys.Rev.Lett.
PRM	Phys.Rev.Materials
PSS	Physica Stat.Solidi B
RAD	Radiation Effects
RMP	Reviws of Modern Physics (Rev.Mod.Phys.)
SCI	Science
SCR	Scripta METALLURGICA
SPS	Sov. Phys.Solid State
SSC	Solid State Commun.
SST	Supercond.Sci.Technol.
SUP	J.Superconductivity
SUR	Surface Science
ZMT	Z.Metallkde
ZPS	Z.Phys.B

FIGURE/DATA

Conventionally, SuperCon has published figure and table sets of systematic data for selected samples. This data sheet provides compressed files of the entire figures and text data of all of them in zip format, separately.

For your reference, an example of a link to a figure provided in SuperCon (Figure 3(a), red frame) and the link site (Figure 3(b)) are shown below.

lome	Oxide & Metallic Menu Organic Menu	Help				
	OXIDE & METALLIC Searc	h Re	sult			
-		in ite	June			
	OKIDE : Bi2201					
	Property : ALL					
Result	s 201 - 301 of 434					
num	element	str3	Tc	tcn	tcfig	refno
9203	Bi1.8Pb0.2Sr1.61La0.39Cu0.99Ga0.010z	Bi2201	21.8			JPC0128231
9204	Bil.8Pb0.2Sr1.62La0.38Cu0.98Ga0.020z	Bi2201	12			JPC0128231
9504	Bi2Sr1.77La0.23Cu106+Z	Bi2201	28		TC9504	PRL0850638
9505	Bi2Sr1.61La0.39Cu106+Z	Bi2201	38.8			PRL0850638
9506	Bi2Sr1.34La0.66Cu106+Z	Bi2201	22			PRL0850638
9507	Bi2Sr1.27La0.73Cu106+Z	Bi2201	14			PRL0850638
9508	Bi2Sr1.24La0.76Cu106+Z	Bi2201	12.1			PRL0850638
9509	Bi2Sr1.16La0.84Cu106+Z	Bi2201	1.82			PRL0850638
0574	D:20-1 0 -0 40-10-	D:2201	0	1		PD06211090

Figure 3(a) Example of link to figures and tables in SuperCon (for reference)

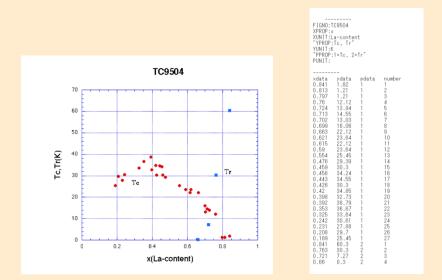


Figure 3(b) Example of Figure and Table Links in SuperCon (for reference)

93-figure number for Tc(p, x, etc)-tcfig in the data table indicates the corresponding file name.