Kakusan

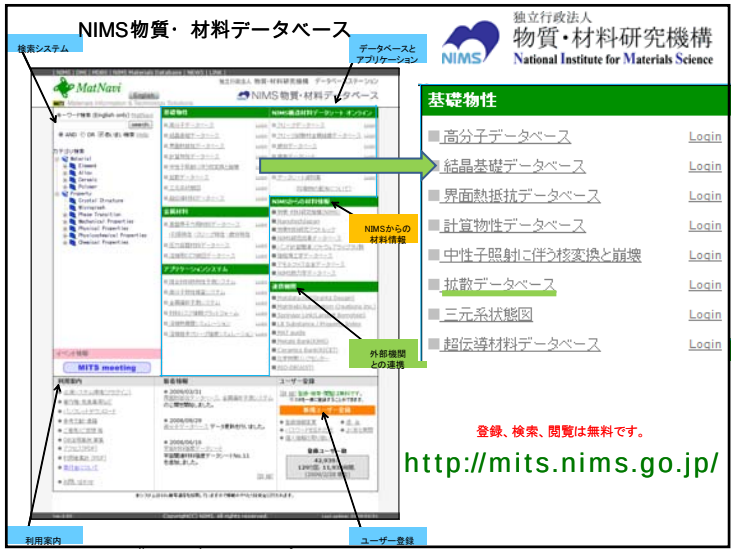
Diffusion Database

独立行政法人 物質・材料研究機構

拡散データベース

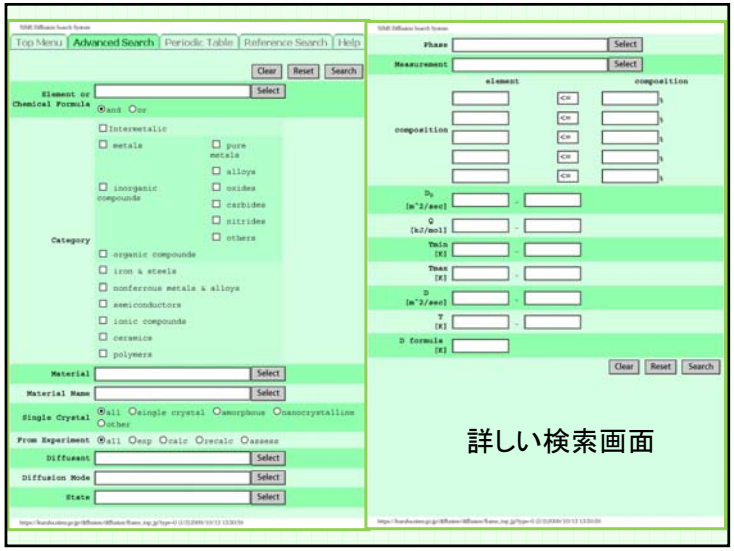
検索手順

NIMS物質・材料データベース

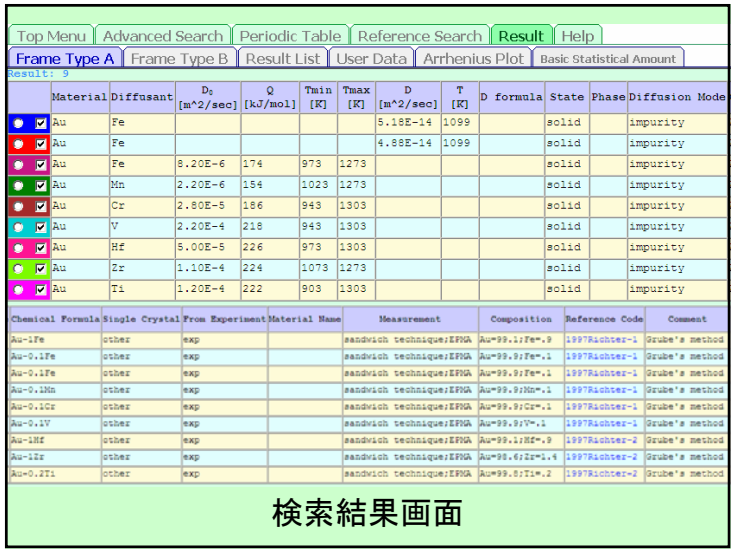


拡散データベース検索画面

周期表による検索



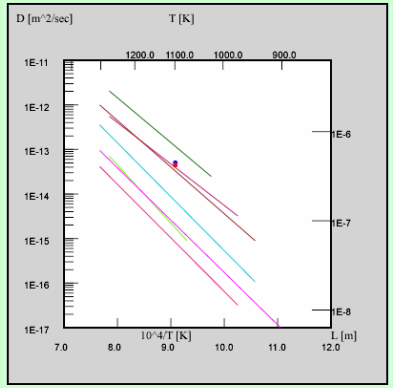
詳しい検索画面



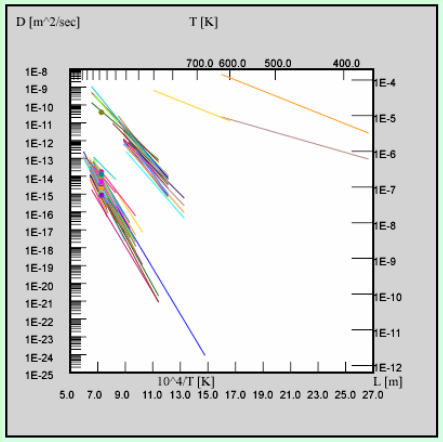
	Material	Diffusant	D_0 [m^2/sec]	Q [kJ/mol]	Tmin [K]	Tmax [K]	D [m^2/sec]	T [K]	D formula	State	Phase	Diffusion Mode
	Au	Fe					5.18E-14	1099		solid		impurity
	Au	Fe					4.88E-14	1099		solid		impurity
	Au	Fe	8.20E-6	174	973	1273				solid		impurity
	Au	Mn	2.20E-6	154	1023	1273				solid		impurity
	Au	Cr	2.80E-5	186	943	1303				solid		impurity
	Au	V	2.20E-4	218	943	1303				solid		impurity
	Au	Hf	5.00E-5	226	973	1303				solid		impurity
	Au	Zr	1.10E-4	224	1073	1273				solid		impurity
	Au	Ti	1.20E-4	222	903	1303				solid		impurity

Chemical Formula	Single Crystal	From Experiment	Material Name	Measurement	Composition	Reference Code	Comment
Au-1Fe	other	exp		sandwich technique;EPMA	Au=99.1;Fe=.9	1997Richter-1	Grube's method
Au-0.1Fe	other	exp		sandwich technique;EPMA	Au=99.9;Fe=.1	1997Richter-1	Grube's method
Au-0.1Fe	other	exp		sandwich technique;EPMA	Au=99.9;Fe=.1	1997Richter-1	Grube's method
Au-0.1Mn	other	exp		sandwich technique;EPMA	Au=99.9;Mn=.1	1997Richter-1	Grube's method
Au-0.1Cr	other	exp		sandwich technique;EPMA	Au=99.9;Cr=.1	1997Richter-1	Grube's method
Au-0.1V	other	exp		sandwich technique;EPMA	Au=99.9;V=.1	1997Richter-1	Grube's method
Au-1Hf	other	exp		sandwich technique;EPMA	Au=99.1;Hf=.9	1997Richter-2	Grube's method
Au-1Zr	other	exp		sandwich technique;EPMA	Au=98.6;Zr=1.4	1997Richter-2	Grube's method
Au-0.2Ti	other	exp		sandwich technique;EPMA	Au=99.8;Ti=.2	1997Richter-2	Grube's method

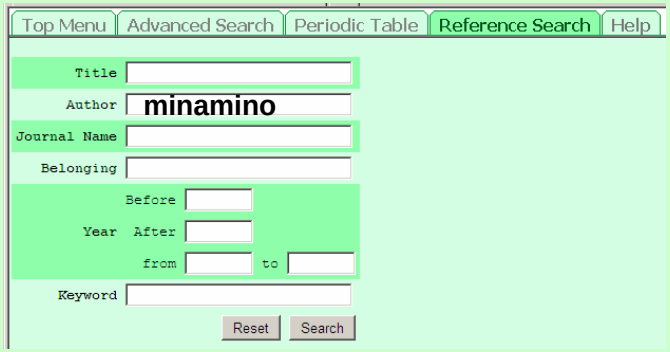
検索結果画面



検索結果のArrheniusプロット
Au



Fe-Cr-Ni合金



文献検索画面

著者「minamino」の検索結果

Reference

Result: 25

Title
Interdiffusion in aluminum-rich solid solution of Al-Cu alloys.
Interdiffusion in a dilute solid solution of Al-Li alloy measured by electrical resistance
Interdiffusion and its size effect in nickel solid solutions of Ni-Co, Ni-Cr and Ni-Ti systems
Diffusion of cobalt, chromium, and titanium in Ni3Al
Diffusion of copper, iron and silicon in Ni3Al
Effect of high pressure on diffusion in beta-Ti
Anomalous diffusion of aluminum in beta-titanium
Effect of high pressure on interdiffusion in Al-Cu-Zn alloys.
Interdiffusion in Al-Cu-Mg alloys under high pressure.
Pressure dependence of anomalous diffusion of zirconium in beta-titanium
Diffusion of copper in nanocrystalline Al-7.8at%Ti-0.3at%Fe alloy prepared by mechanical alloying
Interdiffusion and size effects in Ni-base binary alloys
Diffusion of platinum and molybdenum in Ni and Ni3Al
Quaternary diffusion in alpha solid solutions of Al-Zn-Mg-Cu system.
Diffusion of zinc in commercial Al-Zn alloys under high pressure.
Diffusion of manganese in Ni and Ni3Al
Al composition dependence of Pt, Mn and V diffusion in L12-type ordered Ni3Al
Pt diffusion in B2-type ordered NiAl intermetallic compound and its diffusion mechanisms.
Coalescence behavior of the antiphase domain in Ti3Al
In diffusion in B2-type ordered NiAl intermetallic compound
Quanternary diffusion in the alpha solid solutions of Al-Zn-Mg-Ag alloys
Diffusion of titanium in B2-type ordered NiAl compound
Interdiffusion in Co solid solutions of Co-Al-Cr-Ni system at 1423K
Interdiffusion in alpha solid solution of Al-Cu-Mg-Ag system
Diffusion of Si in Ti3Al intermetallic compound.

Author
Minamino, Y.;Yamane, T.;Takahashi, T.
Minamino,Y.,Yamane,T.,Araki,H.
Jung,S.B.,Yamane,T.,Minamino,Y.,Hirao,K.,Araki,H.,Saji,S.
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Takahashi, T.;Miura, K.;Minamino, Y.;Hirao, K.;Yamane, T.
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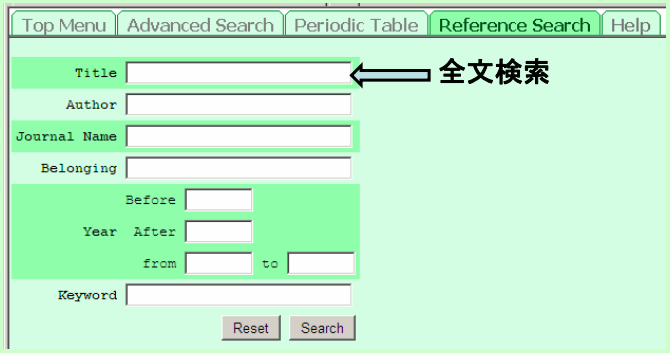
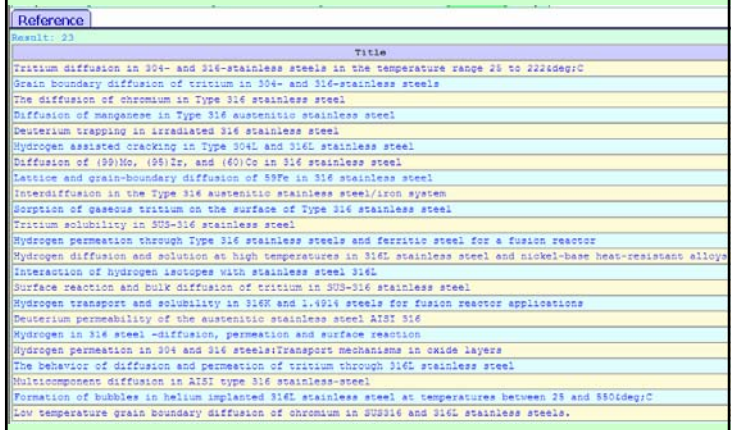
JournalName	Belonging	Year	Volume	Page
J. Mater. Sci. Lett.	Osaka Univ.	1985	4	797-798
Metall.Trans.A	Osaka Univ.	1987	18	1536-1538
J.Mater.Sci.Lett.	Osaka Univ.	1992	11	1333-1337
Metall.Trans.A	Osaka Univ.	1992	23	2783-2790
Diffus.Defect Data Part A Defect Diffus.Forum	Osaka Univ.	1993	95-98	859-864
Diffus.Defect Data Part A Defect Diffus.Forum	Osaka Univ.	1993	90-98	685-690
Metall.Mater.Trans.A	Osaka Univ.	1994	25	874-876
Z. Metallkd	Niihama National College Tech.	1994	85	492-497
J. Jpn Inst. Met.	Niihama National College Tech.	1994	58	1364-1371
Metall.Mater.Trans.A	Osaka Univ.	1996	27	1807-1814
Mater.Trans.,JIM	Osaka Univ.	1996	37	130-137
J.High Temperature Society	Niihama National College of Technology	1996	22	121-128
Diffus.Defect Data Part A Defect Diffus.Forum	Osaka Univ.	1997	143-147	257-262
J. Jpn Inst. Met.	Niihama National College Tech.	1998	62	905-911
J. Mater. Sci.	Hiroshima Inst. Tech.	1999	34	2449-2454
J.Mater.Sci.Lett.	SungKyunKwan Univ.	1999	18	1063-1066
High Temp.Mater.Process	Osaka Univ.	1999	18	337-350
Science Technology Advanced Mater.	Osaka Univ.	2000	1	237-249
Diffus.Defect Data Part A Defect Diffus.Forum	Osaka Univ.	2001	194-199	577-582
Diffus.Defect Data Part A Defect Diffus.Forum	Osaka Univ.	2001	194-199	517-522
Diffus.Defect Data Part A Defect Diffus.Forum	Niihama National College of Technology	2001	194-199	235-240
J. High Temperature Soc.	Osaka Univ.	2002	28	323-328
Mater. Trans.	Osaka Univ.	2003	44	63-71
Mater. Trans.	Niihama National College Technol.	2003	44	2252-2257
Defect and Diffusion Forum	Osaka Univ.	2005	237-240	394-399

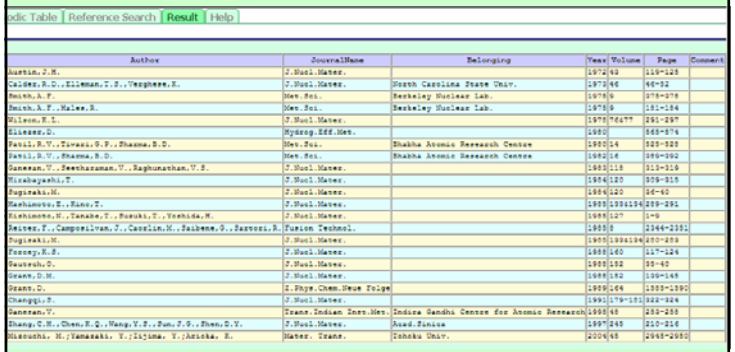
著者「minamino」の検索結果　続



文献検索画面



「316」を検索語とした結果



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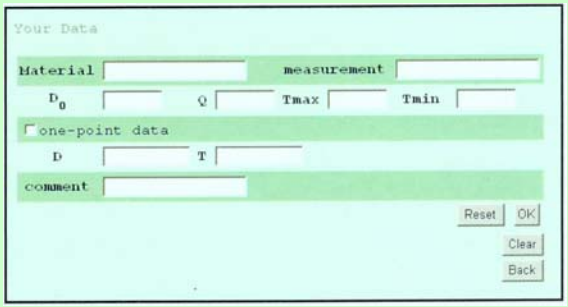

ユーザーのデータ挿入画面