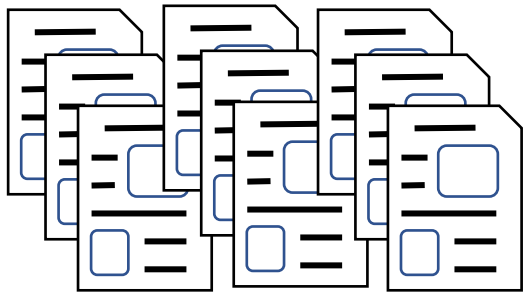
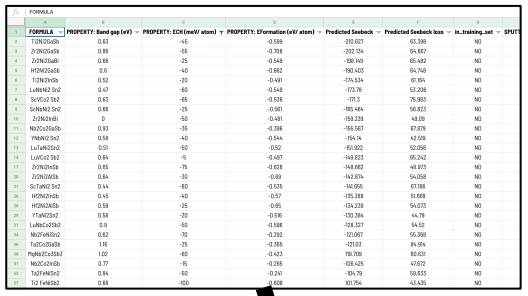
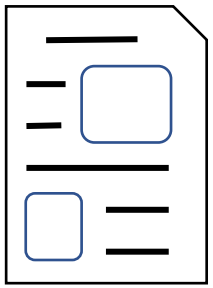
Db workflow



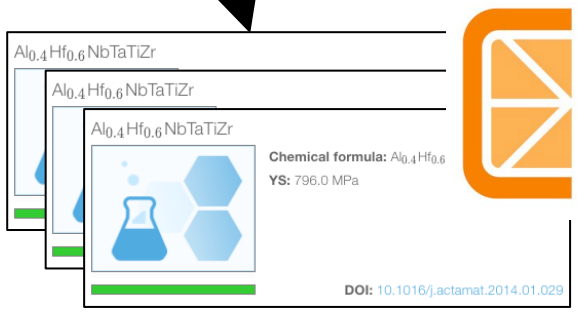
Relevant articles published since 2004. (200+)

Structured data template

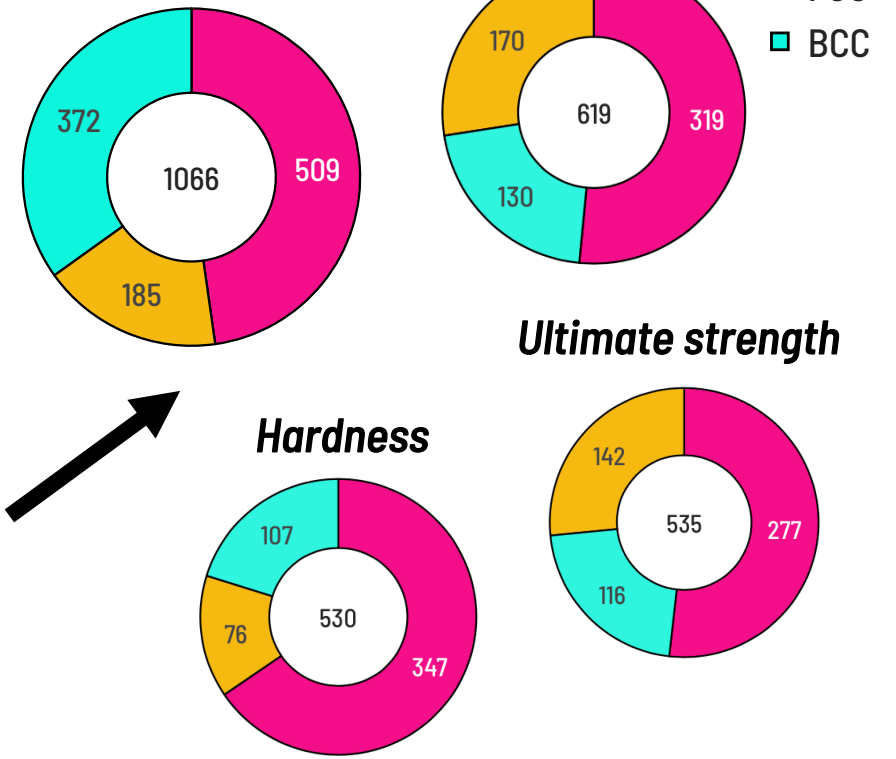




New MPEA publication

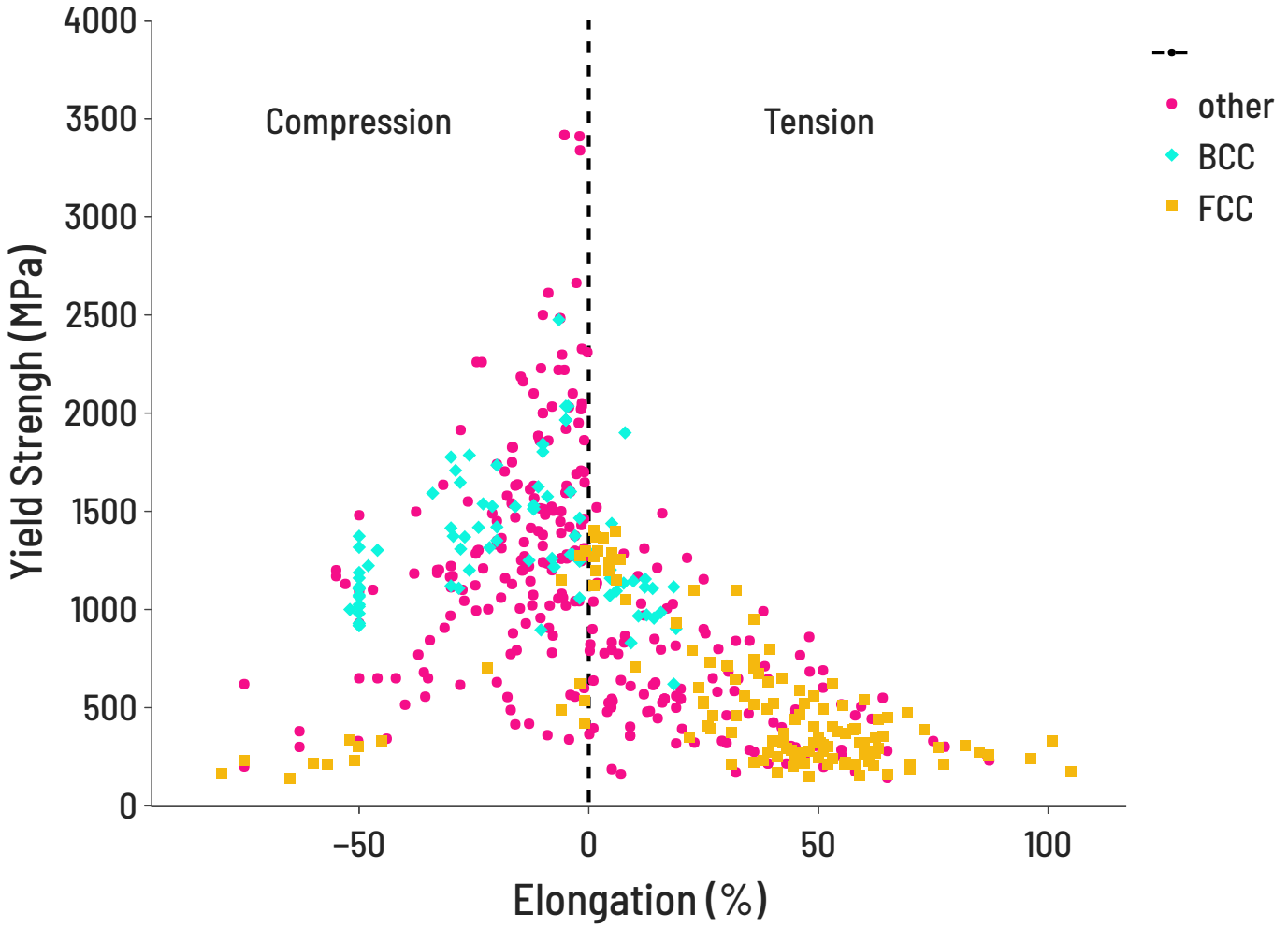


Web-based data infrastructure

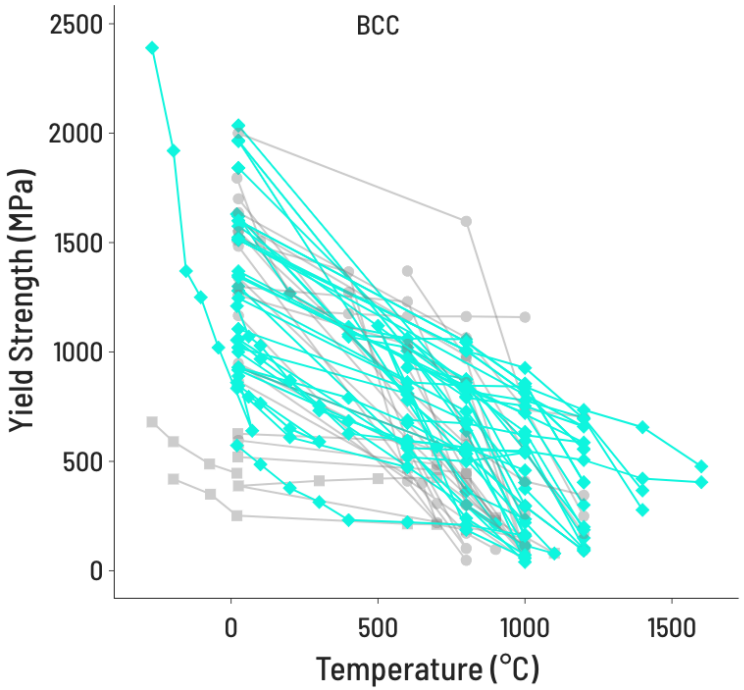


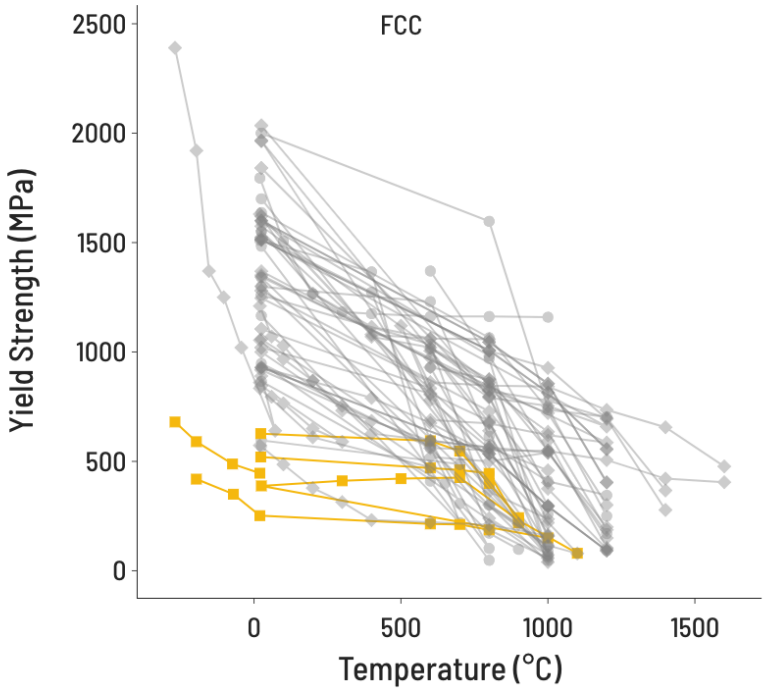
100s of mechanical properties

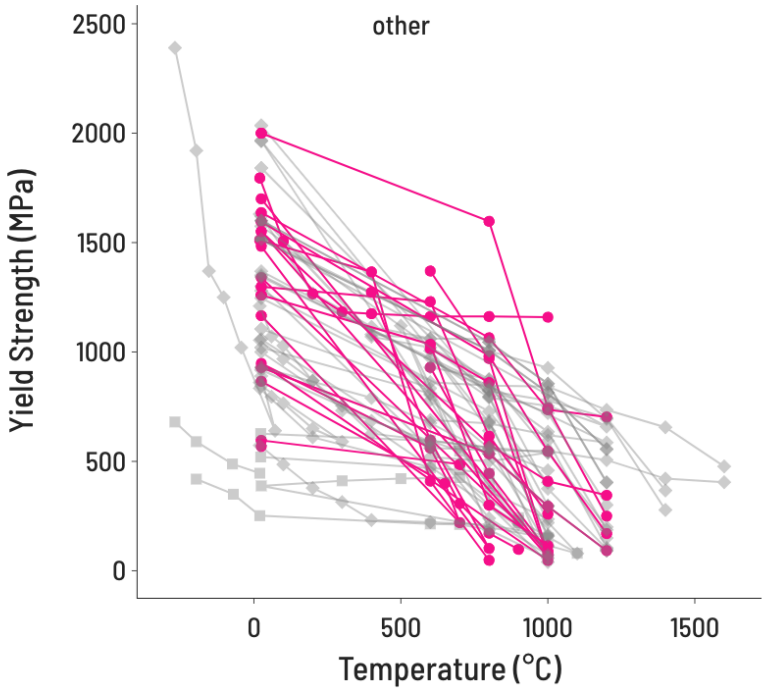
YS scatterplot



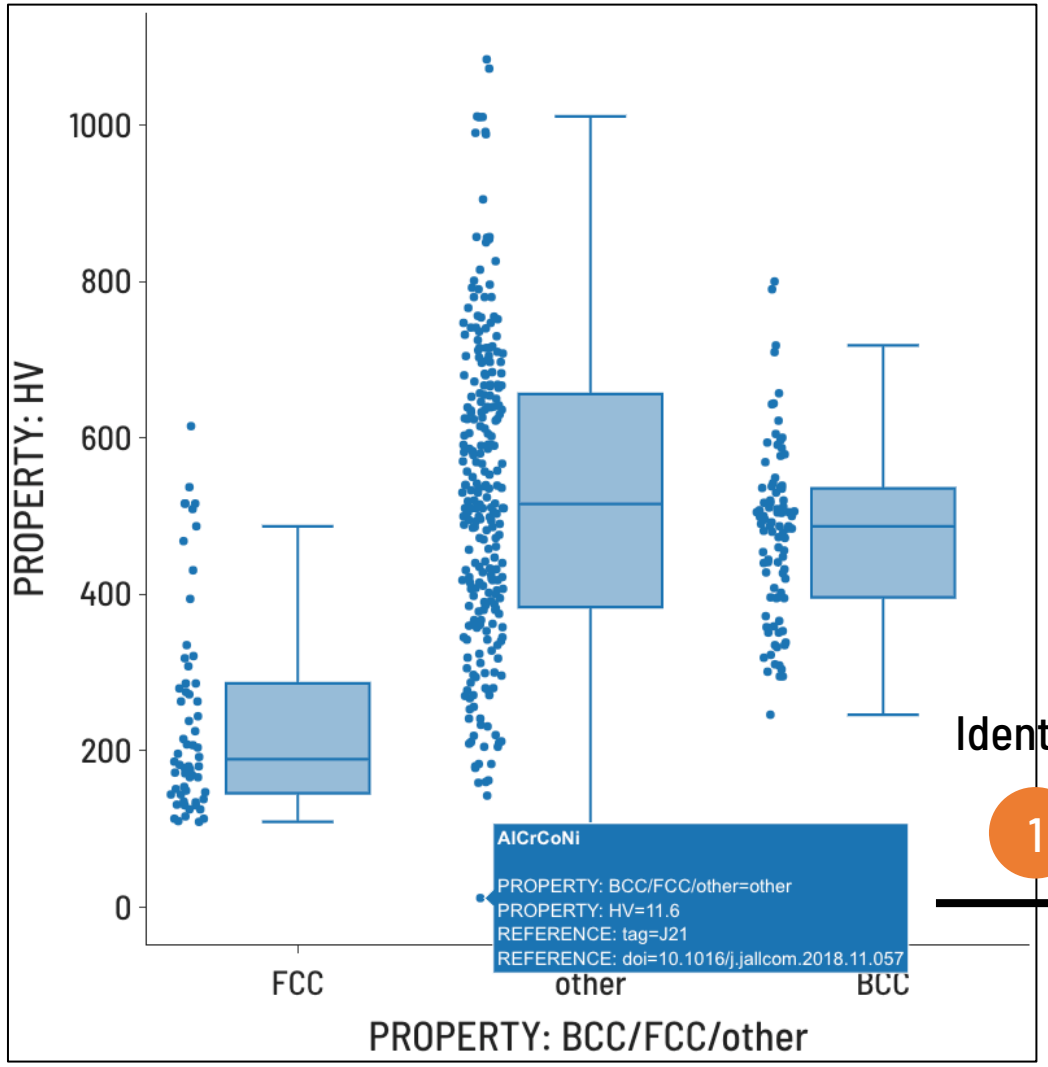
YS temperature







Outlier detection



Identify source

1

REFERENCE: DOI	FORMULA	PROPERTY: HV
10.1016/j.jallcom.2018.11.057	AlCoCrNi	11.6 $\pm$ 0.2

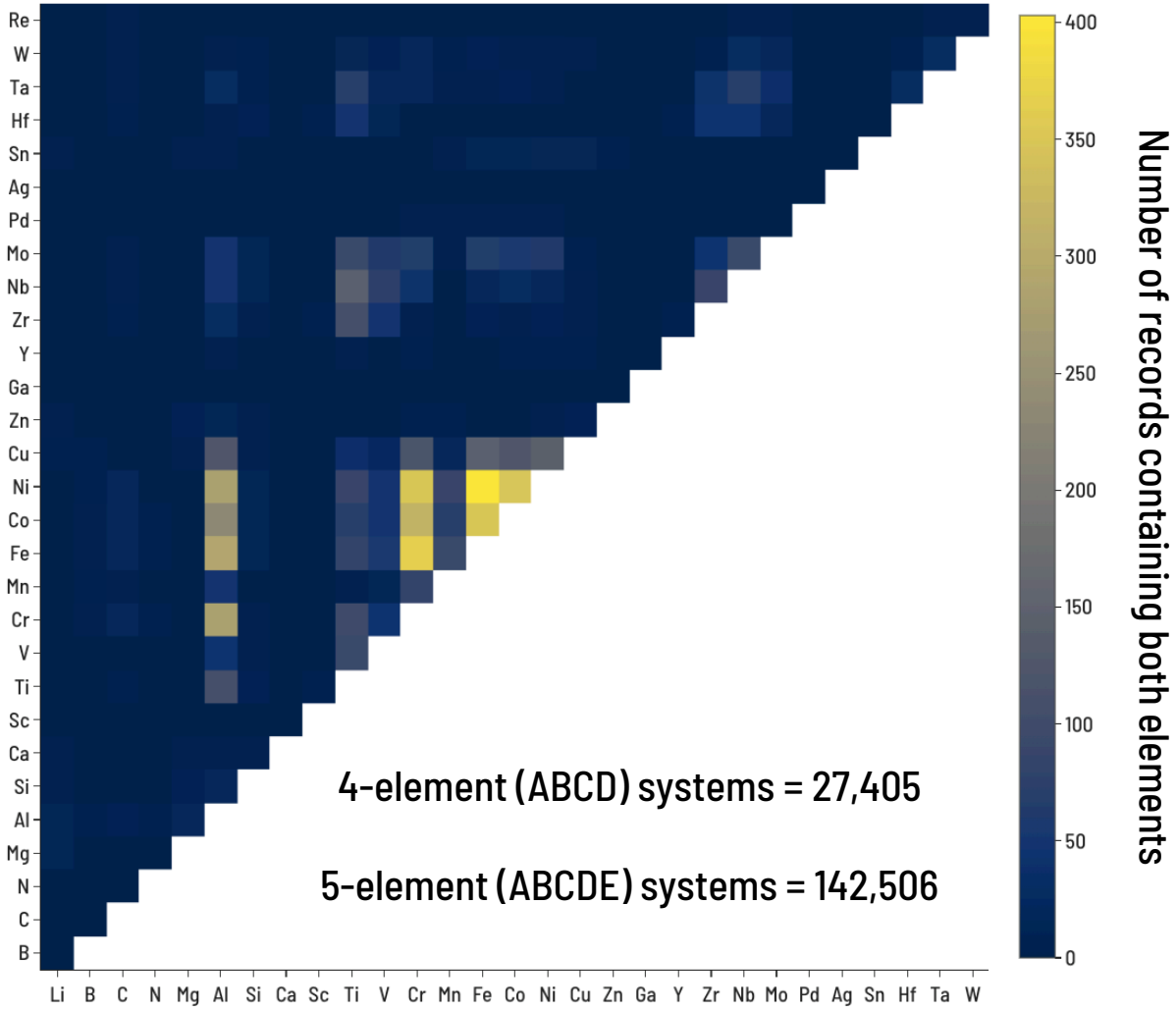
2 Identify inaccuracy type

REFERENCE: DOI	FORMULA	PROPERTY: HV
10.1016/j.jallcom.2018.11.057	AlCoCrNi	1183 $\pm$ 20

3 Correct inaccuracy

Table 4

Alloy	σ_y (MPa)	σ_{max} (MPa)	ε_p (%)	H_{IT} (GPa)
AlCoCrNi [present]	1750 ± 50	3200 ± 35	16.7 ± 0.9	11.6 ± 0.2 (at 15 mNs^{-1})
AlCoCrFeNi [22,36]	1384	1912	16.7	9.86 at (at 10 mNs^{-1})


Re
W
Ta
Hf
Sn
Ag
Pd
Mo
Nb
Zr
Y
Ga
Zn
Cu
Ni
Co
Fe
Mn
Cr
V
Ti
Sc
Ca
Si
Al
Mg
N
C
B
Li B C N Mg Al Si Ca Sc Ti V Cr Mn Fe Co Ni Cu Zn Ga Y Zr Nb Mo Pd Ag Sn Hf Ta W
4-element (ABCD) systems = 27,405
5-element (ABCDE) systems = 142,506
400
350
300
250
200
150
100
50
0
Number of records containing both elements