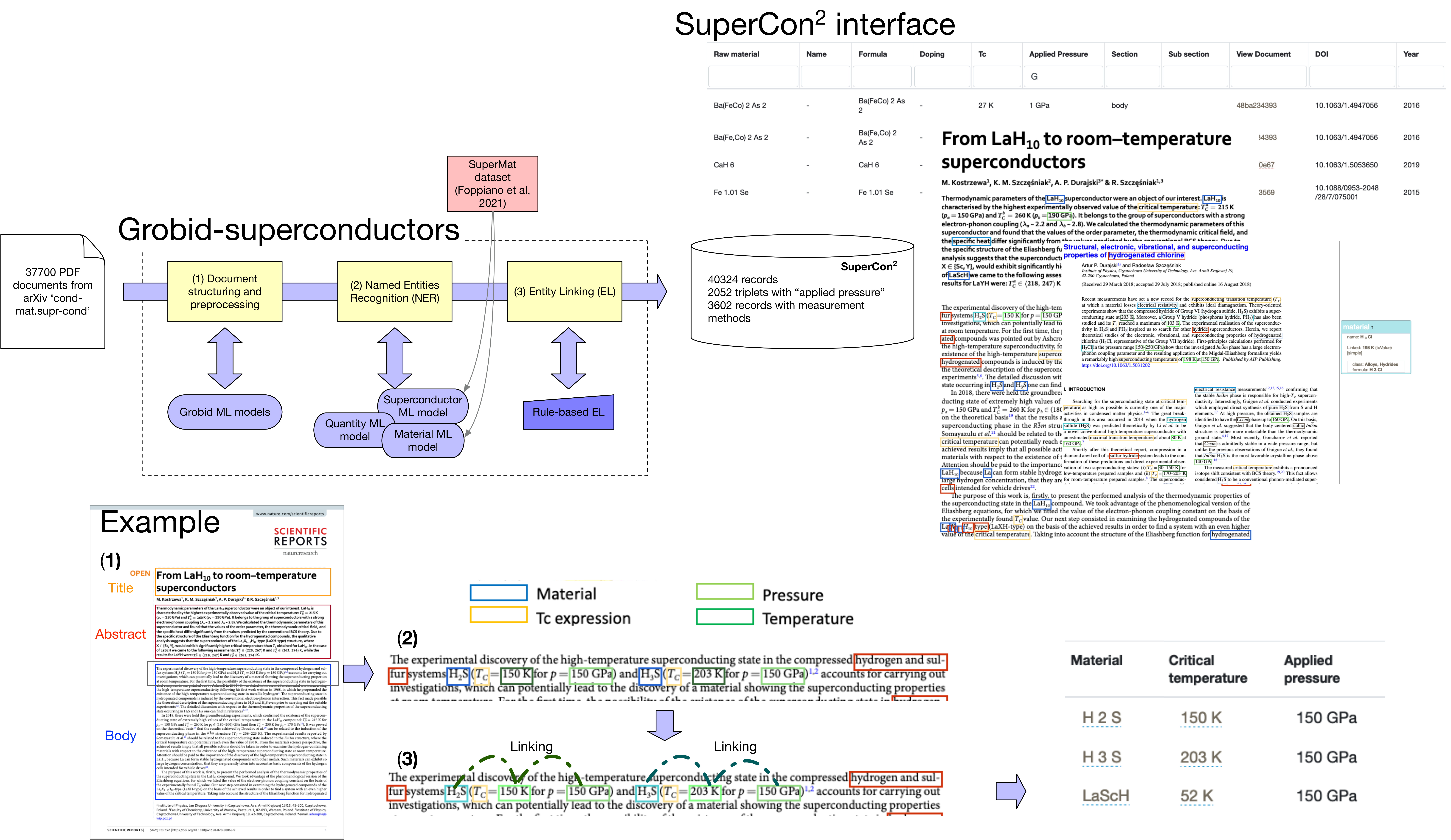
SuperCon² interface
Raw material
Name
Formula
Doping
Tc
Applied Pressure
Section
Sub section
View Document
DOI
Year
Ba(FeCo) 2 As 2
27 K
1 GPa
body
48ba234393
10.1063/1.4947056
2016
Ba(Fe,Co) 2 As 2
CaH 6
10.1063/1.5053650
2019
Fe 1.01 Se
10.1088/0953-2048/28/7/075001
2015
From LaH10 to room–temperature superconductors
SuperMat dataset (Foppiano et al, 2021)
Grobid-superconductors
37700 PDF documents from arXiv 'cond-mat.supr-cond'
(1) Document structuring and preprocessing
(2) Named Entities Recognition (NER)
(3) Entity Linking (EL)
SuperCon²
40324 records
2052 triplets with "applied pressure"
3602 records with measurement methods
Grobid ML models
Superconductor ML model
Quantity ML model
Material ML model
Rule-based EL
Example
(1)
Title
Abstract
Body
Material
Tc expression
Pressure
Temperature
(2)
(3)
Linking
Linking
Material
Critical temperature
Applied pressure
H 2 S
150 K
150 GPa
H 3 S
203 K
150 GPa
LaScH
52 K
150 GPa