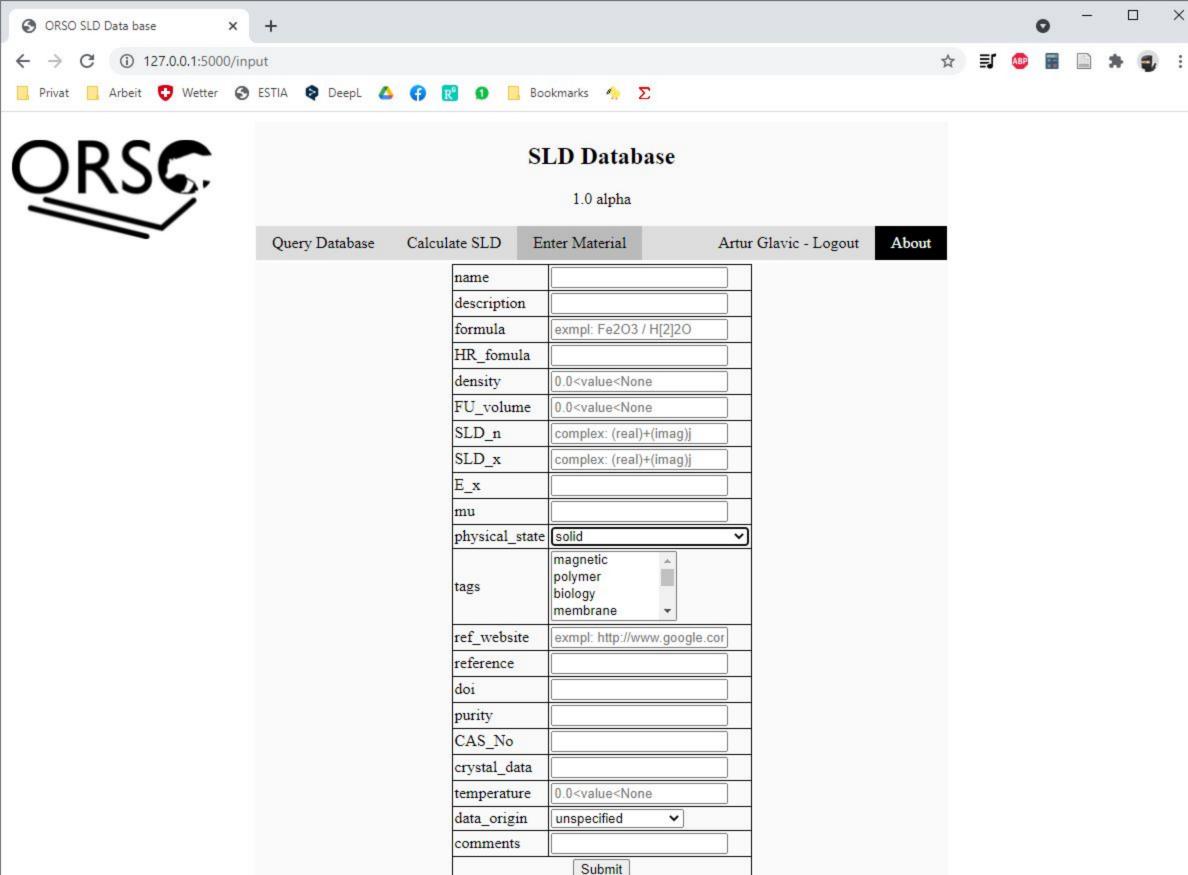
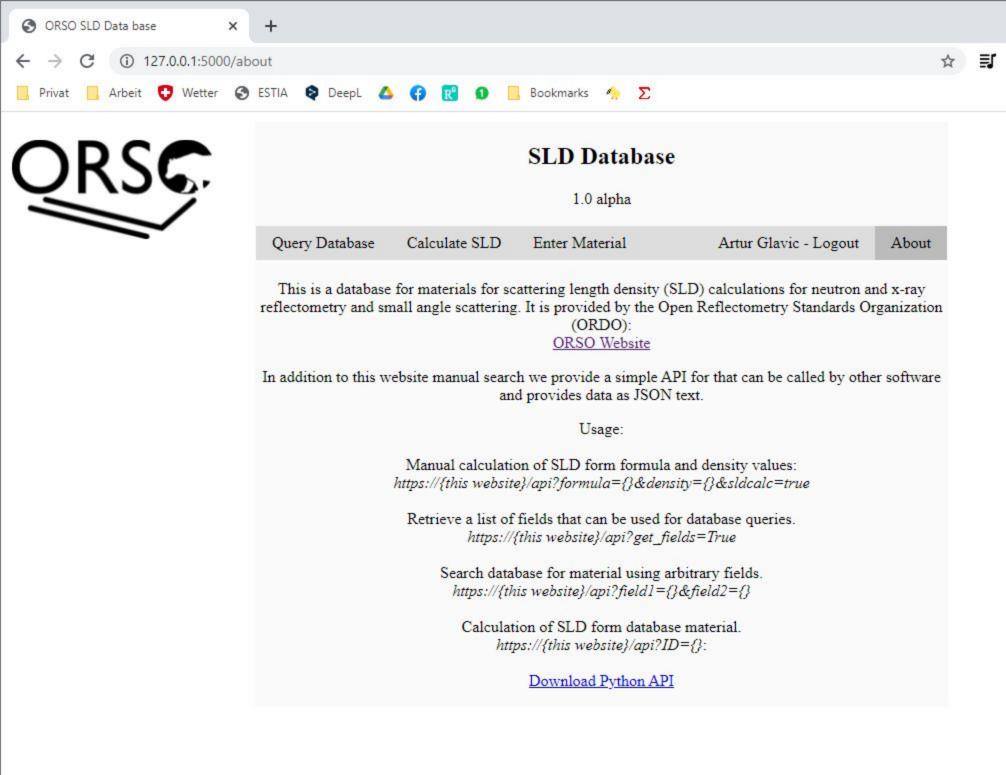
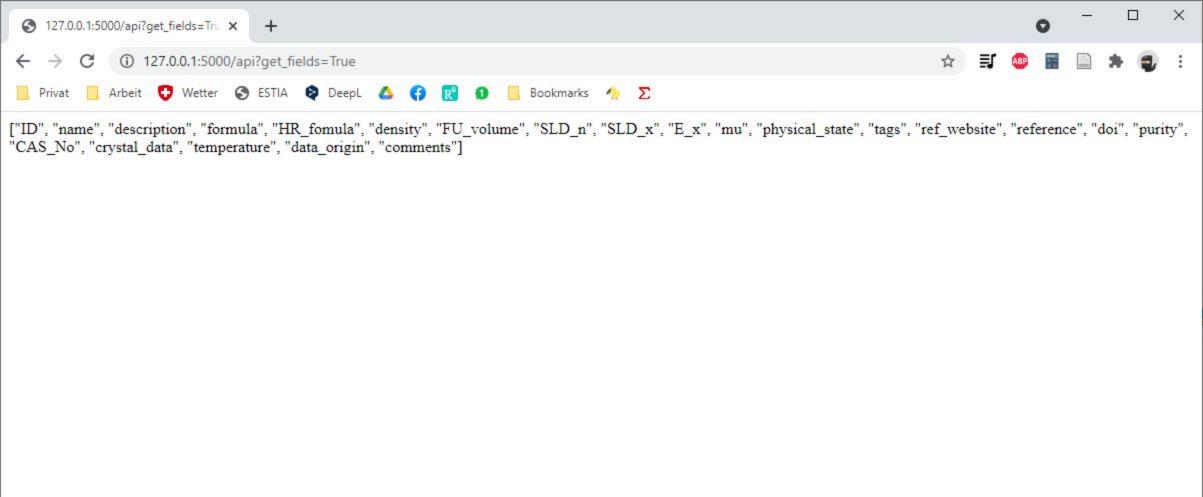
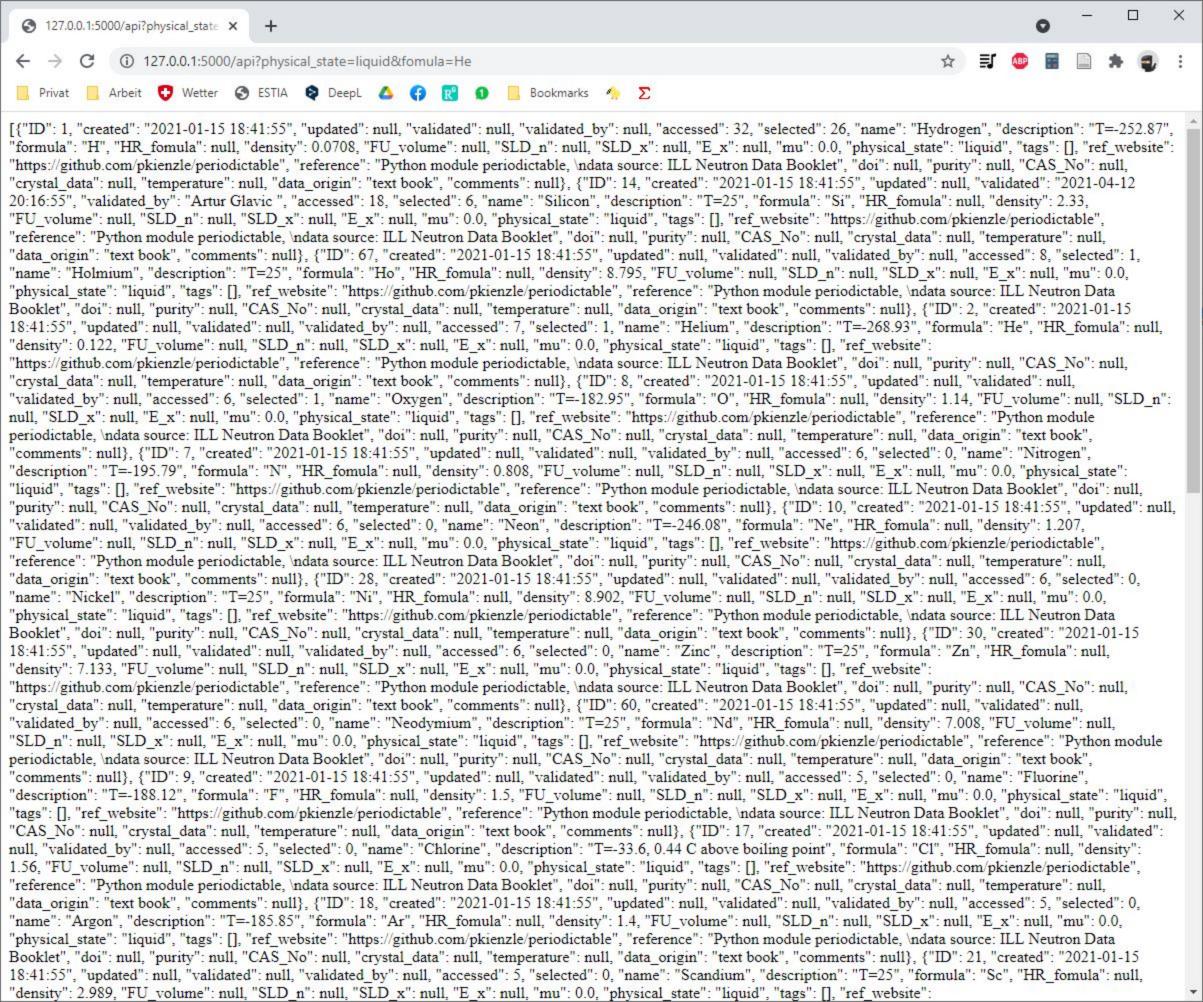


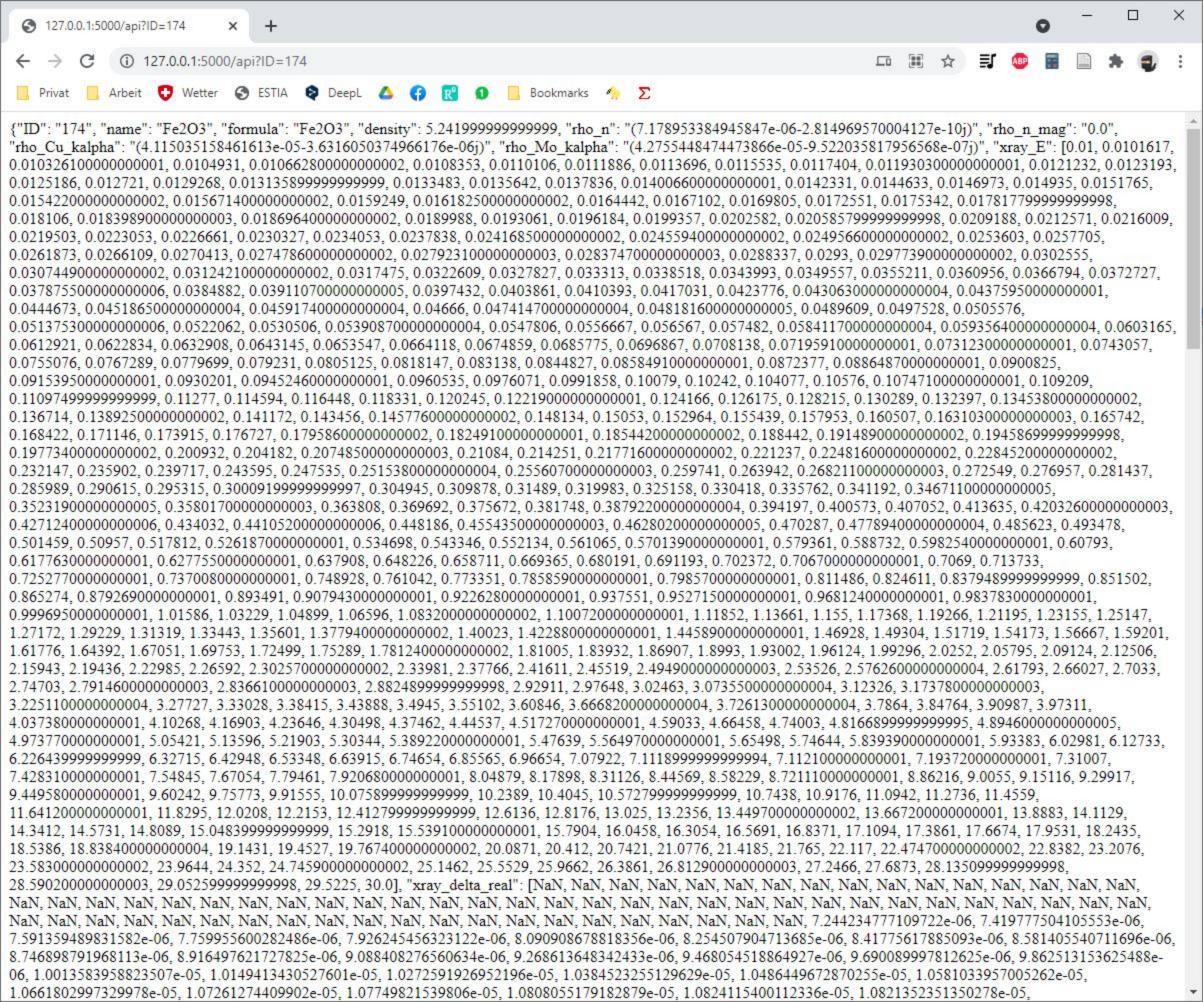
X











```
In [1]: %pylab inline
        from slddb import api
        Populating the interactive namespace from numpy and matplotlib
In [2]: results=api.search(formula='Si')
        print(", ".join(results[0].keys())+"\n")
        for ri in results:
            print(ri['ID'], ri['name'], ri['formula'], ri['description'], ri['validated'], ri['validated by'])
        ID, created, updated, validated_by, accessed, selected, name, description, formula, HR_fomula, density, FU_volume, S
        LD n, SLD x, E x, mu, physical state, tags, ref website, reference, doi, purity, CAS No, crystal data, temperature, data origi
        n, comments
        14 Silicon Si T=25 2021-04-12 20:16:55 Artur Glavic <artur.glavic@psi.ch>
        93 Si Si None None None
        118 SiO2 O2Si fused SiO2 (Quartz) None None
        220 InAs AsIn None 2021-05-21 10:45:23 Artur Glavic <artur.glavic@psi.ch>
        134 Co0.5Fe0.5Si Co0.5Fe0.5Si None None None
        98 SiO2 O2Si Native Oxyde None None
In [3]: material=api.material(ID=14)
        material
Out[3]: Material([('Si', 1.0)], fu_volume=20.015910254527896)
In [4]: material.rho n
Out[4]: (2.0737053410104337e-06-2.3757518571628716e-11j)
In [5]: material.fu dens
Out[5]: 0.04996025598055353
In [6]: material.dens
Out[6]: 2.33
In [7]: material.delta of E(8.047823)
Out[7]: (2.007024433211989e-05-4.574332903661553e-07j)
```