

210315_xas-exp_dataset

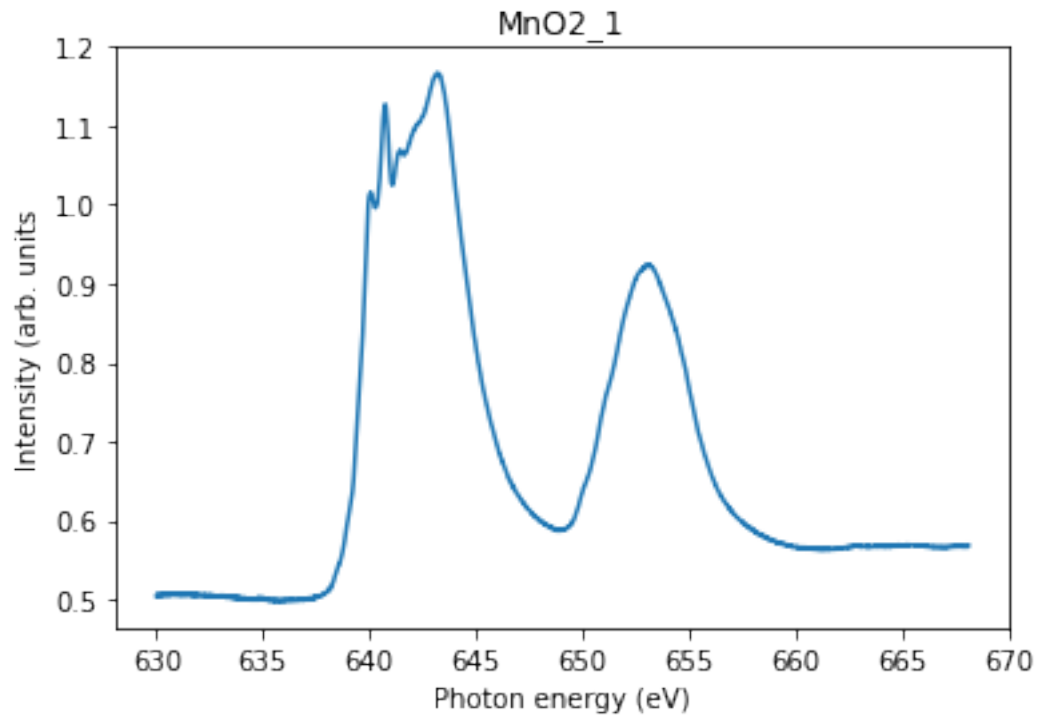
March 15, 2021

```
[13]: import os
import csv
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

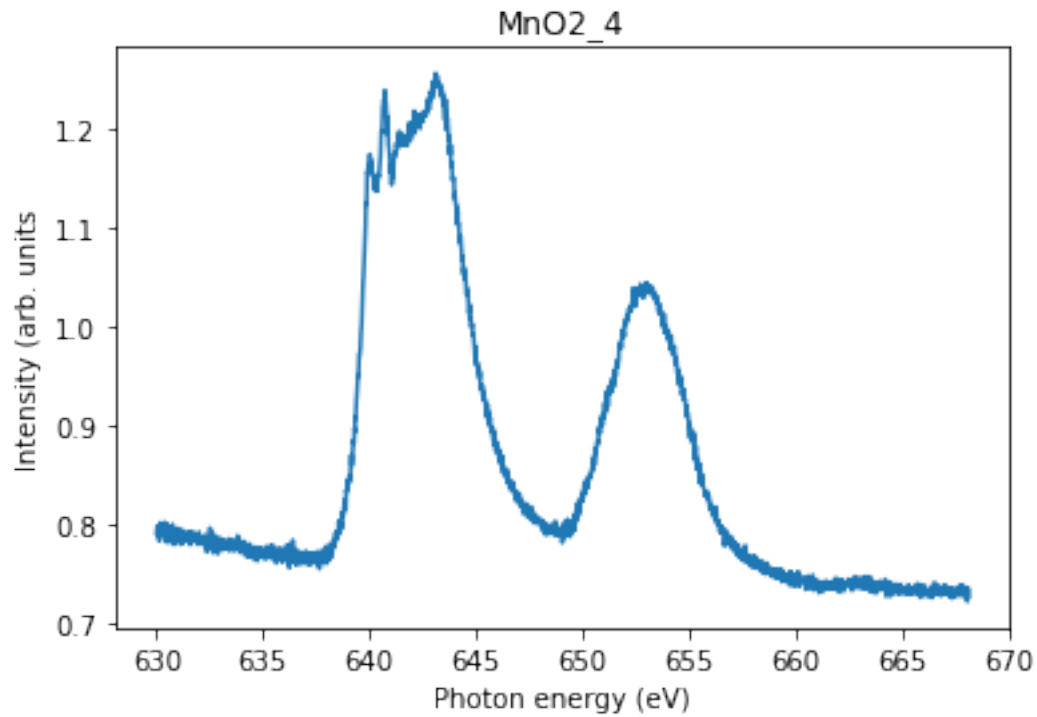
```
[4]: os.getcwd()
```

```
[4]: '/Users/tetsuro/Desktop/20210314_Ueno'
```

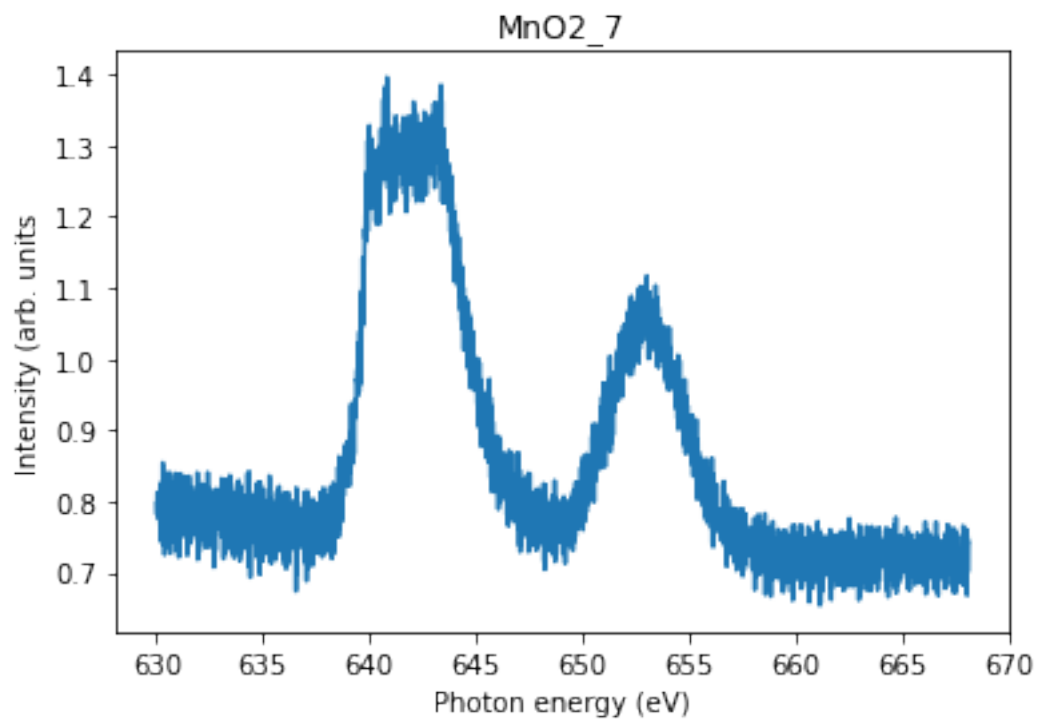
```
[72]: data = pd.read_csv("Mn02_1", header=7,
    ↪names=["Target", "Energy", "Time", "Ch0", "Ch1", "Ch2", "Ch3", "Ch4", "Ch5", "Ch6", "Ch7", "Ch4_corr",
plt.plot(data.Energy, data.Ch3/data.Ch2)
plt.xlabel("Photon energy (eV)")
plt.ylabel("Intensity (arb. units)")
plt.title("Mn02_1")
plt.show()
```



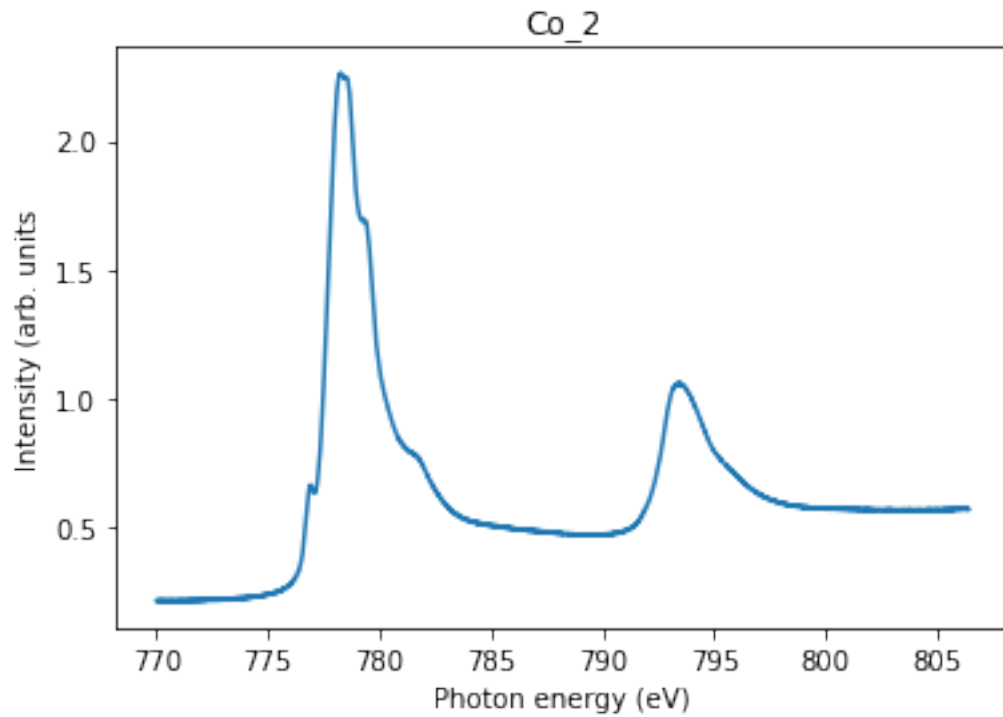
```
[73]: data = pd.read_csv("MnO2_4", header=7,
    ↳ names=["Target", "Energy", "Time", "Ch0", "Ch1", "Ch2", "Ch3", "Ch4", "Ch5", "Ch6", "Ch7", "Ch4_corr",
plt.plot(data.Energy, data.Ch3/data.Ch2)
plt.xlabel("Photon energy (eV)")
plt.ylabel("Intensity (arb. units)")
plt.title("MnO2_4")
plt.show()
```



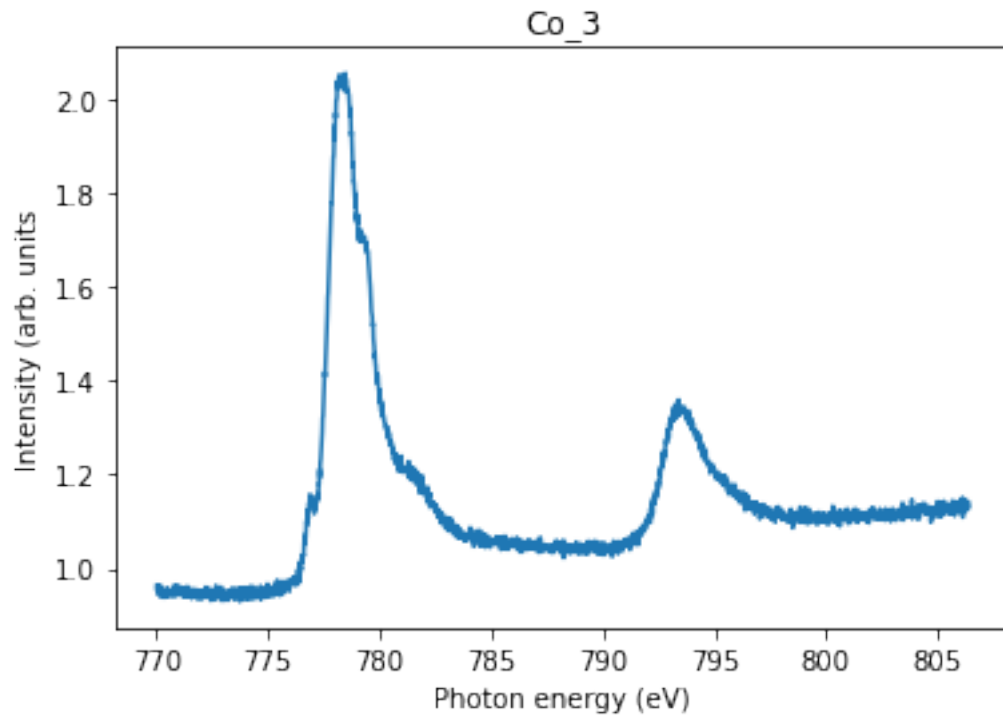
```
[74]: data = pd.read_csv("MnO2_7", header=7,
    ↳ names=["Target", "Energy", "Time", "Ch0", "Ch1", "Ch2", "Ch3", "Ch4", "Ch5", "Ch6", "Ch7", "Ch4_corr",
plt.plot(data.Energy, data.Ch3/data.Ch2)
plt.xlabel("Photon energy (eV)")
plt.ylabel("Intensity (arb. units)")
plt.title("MnO2_7")
plt.show()
```



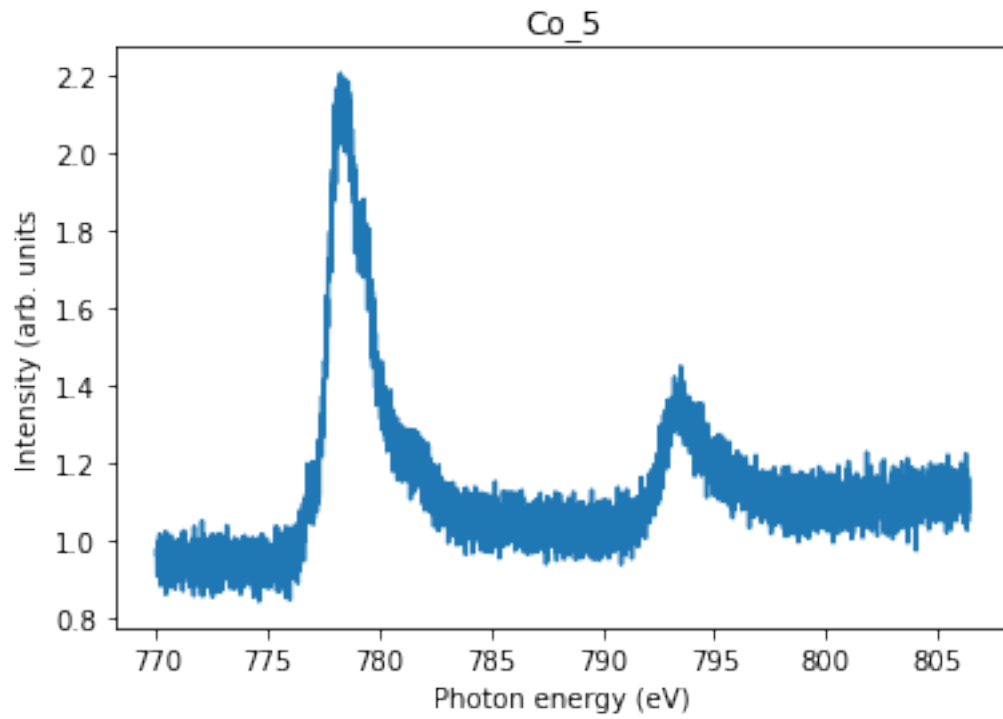
```
[77]: data = pd.read_csv("Co_2", header=7,
    ↳ names=["Target", "Energy", "Time", "Ch0", "Ch1", "Ch2", "Ch3", "Ch4", "Ch5", "Ch6", "Ch7", "Ch4_corr",
plt.plot(data.Energy, data.Ch3/data.Ch2)
plt.xlabel("Photon energy (eV)")
plt.ylabel("Intensity (arb. units)")
plt.title("Co_2")
plt.show()
```



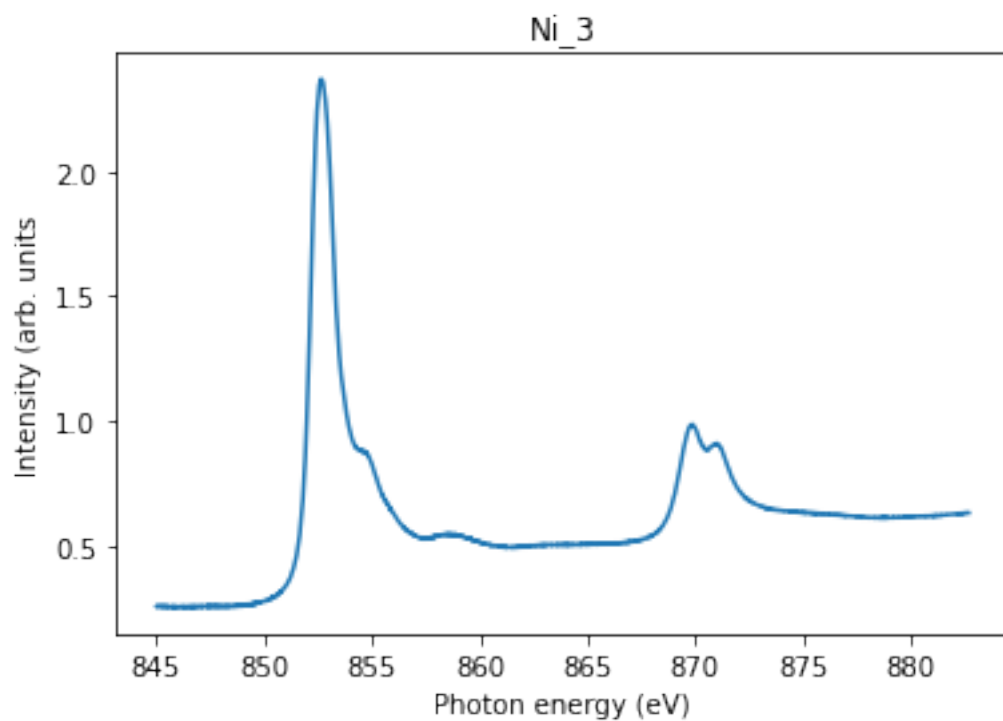
```
[78]: data = pd.read_csv("Co_3", header=7,
    ↳ names=["Target", "Energy", "Time", "Ch0", "Ch1", "Ch2", "Ch3", "Ch4", "Ch5", "Ch6", "Ch7", "Ch4_corr",
plt.plot(data.Energy, data.Ch3/data.Ch2)
plt.xlabel("Photon energy (eV)")
plt.ylabel("Intensity (arb. units)")
plt.title("Co_3")
plt.show()
```



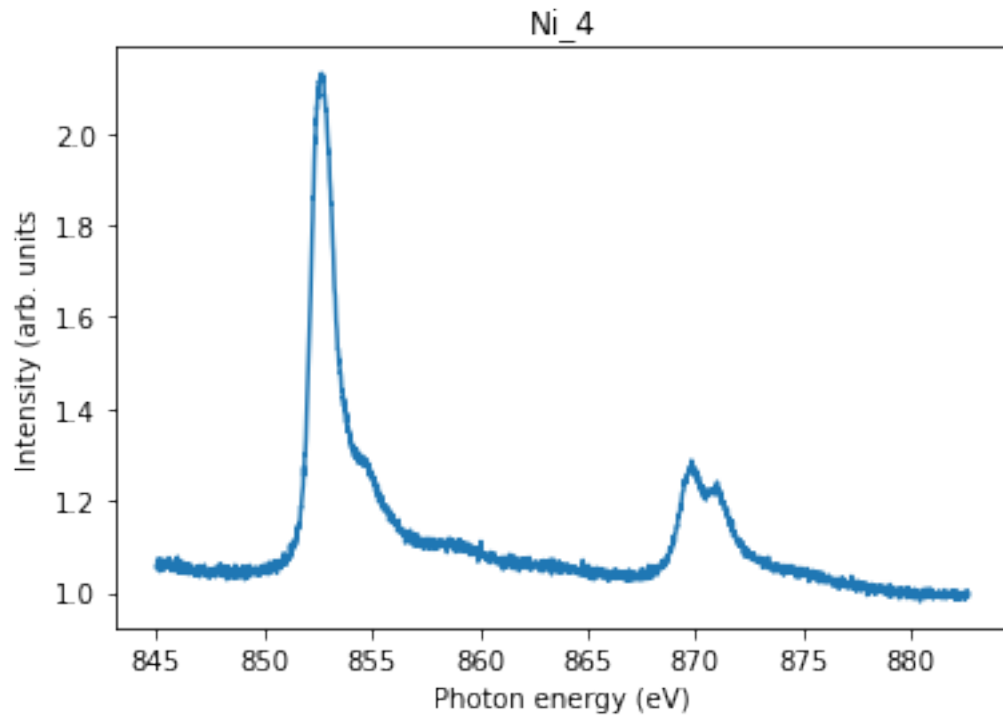
```
[79]: data = pd.read_csv("Co_5", header=7,
    ↳ names=["Target", "Energy", "Time", "Ch0", "Ch1", "Ch2", "Ch3", "Ch4", "Ch5", "Ch6", "Ch7", "Ch4_corr",
plt.plot(data.Energy, data.Ch3/data.Ch2)
plt.xlabel("Photon energy (eV)")
plt.ylabel("Intensity (arb. units)")
plt.title("Co_5")
plt.show()
```



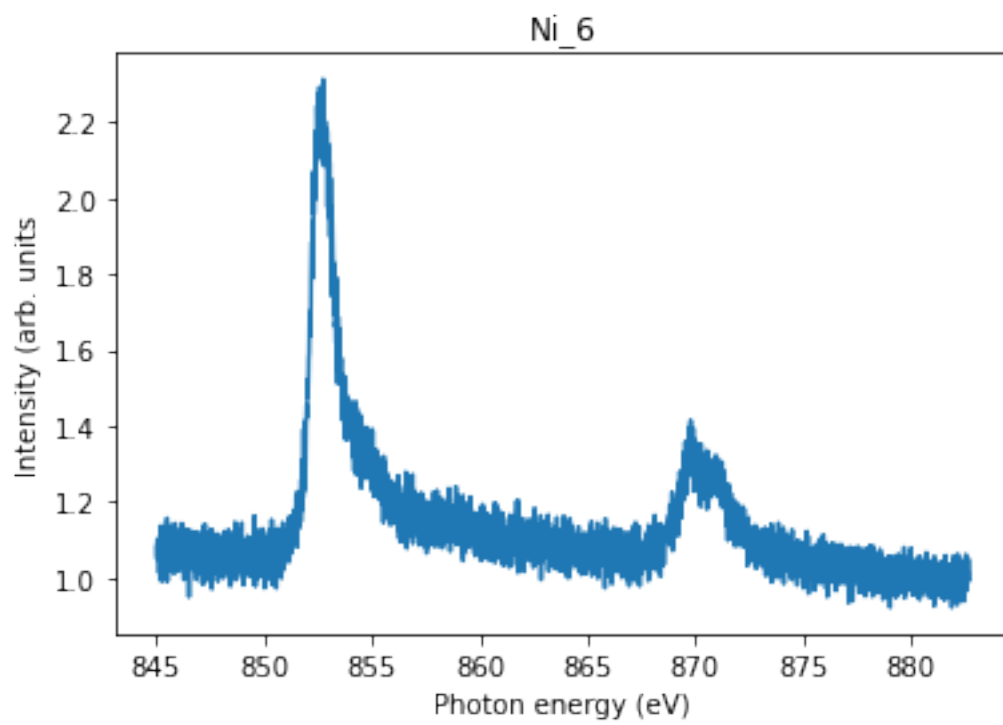
```
[80]: data = pd.read_csv("Ni_3", header=7,
    ↪names=["Target", "Energy", "Time", "Ch0", "Ch1", "Ch2", "Ch3", "Ch4", "Ch5", "Ch6", "Ch7", "Ch4_corr",
plt.plot(data.Energy, data.Ch3/data.Ch2)
plt.xlabel("Photon energy (eV)")
plt.ylabel("Intensity (arb. units)")
plt.title("Ni_3")
plt.show()
```



```
[81]: data = pd.read_csv("Ni_4", header=7,
    ↳ names=["Target", "Energy", "Time", "Ch0", "Ch1", "Ch2", "Ch3", "Ch4", "Ch5", "Ch6", "Ch7", "Ch4_corr",
plt.plot(data.Energy, data.Ch3/data.Ch2)
plt.xlabel("Photon energy (eV)")
plt.ylabel("Intensity (arb. units)")
plt.title("Ni_4")
plt.show()
```

```
[82]: data = pd.read_csv("Ni_6", header=7,
    ↳ names=["Target", "Energy", "Time", "Ch0", "Ch1", "Ch2", "Ch3", "Ch4", "Ch5", "Ch6", "Ch7", "Ch4_corr",
plt.plot(data.Energy, data.Ch3/data.Ch2)
plt.xlabel("Photon energy (eV)")
plt.ylabel("Intensity (arb. units)")
plt.title("Ni_6")
plt.show()
```



[]: