

Split

```
import os
import sys, numpy

def extractcitationkey(strlist):
    temp=[]
    num=len(strlist.Split.py(','))
    if num == 1:
        return [strlist]
    else:
        for s in strlist.Split.py(','):
            temp.append(s.replace(' ',''))
        return temp

    directory='.'
    extension = ".tex"
    files = [file for file in sorted(os.listdir(directory)) if file.lower().endswith(extension)]

for f in files:
    citationkeylist=[]
    w=open(f)
    text=w.read()
    w.close()
    length=len(text)
    mark='cite{'
    startidx=[]
    endidx=[]
    sentence=[]
    sentencelength=[]
    for i in range(len(text.split(mark))-1):
        sentence.append(text.split(mark)[i])
        sentencelength.append(len(sentence[i]))
        startidx.append(sum(sentencelength)+(i+1)*5)

    for start in startidx:
        idxlist=[]
        for i in range(start,len(text)):
            if text[i]=='}':
                idxlist.append(i)
            endidx.append(min(idxlist))

    for i in range(len(startidx)):
        start=startidx[i]
        end=endidx[i]
        for citationkey in extractcitationkey(text[start:end]):
            print f,citationkey
            citationkeylist.append(citationkey)
    citationkeylist=list(set(citationkeylist))
    print f
    print citationkeylist
```

doi2bib

```
import os
import sys, numpy
#import urllib.request

from six.moves import urllib from urllib2 import Request from urllib2 import urlopen

def doi2bib.py(doi):
    completeURL='https://doi.org/' + doi
    q = Request(completeURL)
    q.add_header('Accept', 'application/x-bibtex; charset=utf-8')
    a = urlopen(q).read()
    return a

doi='10.1172/jci27167'
print doi2bib.py(doi)

doi='10.1088/1361-6501/aa8c1c'
print doi2bib.py(doi)
```