```
import requests
import json
import textwrap
import cx_Oracle

MY_API_KEY  = "................"
USERNAME = "...."
PASSWORD = "......"
```

```
def s(texto_):
    return "'" + texto_.replace("'"," ") + "'"

def get_scopus_info(SCOPUS_ID):
    url = ("http://api.elsevier.com/content/abstract/scopus_id/"
          + SCOPUS_ID
          + "?field=authors,title,publicationName,volume,issueIdentifier,"
          + "prism:pageRange,coverDate,article-number,doi,issn,citedby-
count,prism:aggregationType")
    resp = requests.get(url,
                    headers={'Accept':'application/json',
                             'X-ELS-APIKey': MY_API_KEY})

    return json.loads(resp.text.encode('utf-8'))

def get_orcid_ids(ORCID_ID_):
       resp = requests.get("https://pub.orcid.org/v3.0/"+ORCID_ID_+"/works",
                        headers={'Accept':'application/json'})
       results = resp.json()
       my_list = []
       for r in results['group']:
              for r2 in r['work-summary']:
                     try:
                            my_list.append(r2['url']['value'])
                     except:
                            my_list.append('None')
       my_list2 = []
       for r in my_list:
              if r.find('eid=') > 0:
                     k1 = r.find('eid=')
                     k2 = r.find('&',k1)
                     if r[k1+11:k2] not in my_list2:
                            my_list2.append(r[k1+11:k2])
       return my_list2

dsn = cx_Oracle.makedsn("oracledocker", 1521, service_name="orclpdb1")
con = cx_Oracle.connect(USERNAME, PASSWORD, dsn, encoding="UTF-8")

print "ligacao a Base de dados efectuada com sucesso"
i = 0

cursor = con.cursor()
sql = "select grupo,lab,nome,integrado,orcid from orcid_author where orcid is
not null order by integrado desc"
cursor.execute(sql)

for resultado in cursor:
    ORCID_ID = resultado[4]
    for sid in get_orcid_ids(ORCID_ID):

        i += 1
        print i,sid,ORCID_ID
            # o sid e' o eid gravar sid e orcid na bd
            # verificar se ja esta
```

```
        gravar = 1
        sql = "select * from orcid_scopus where eid = " + s(sid)
        cur2 = con.cursor()
        cur2.execute(sql)
        resultSet = cur2.fetchone()
        if (resultSet == None):
            results=get_scopus_info(sid)

            title = ""
            journal = ""
            volume = ""
            issn = ""
            date = ""
            doi = ""
            cites = 0
            gravar = 0

            #"AUTHORS","TITLE","YEAR" N,"SOURCE","CITED"
N,"ISSN","EID","SJR","Q",DOI

            try:
              authors=', '.join([au['ce:indexed-name'] for au in
results['abstracts-retrieval-response']['authors']['author']])
            except:
              authors = ""

            try:
              title=results['abstracts-retrieval-
response']['coredata']['dc:title']
              gravar = 1
            except:
              title = ""

            try:
              journal=results['abstracts-retrieval-
response']['coredata'].get('prism:publicationName', '')
            except:
                journal = ""

            try:
                volume=results['abstracts-retrieval-
response']['coredata'].get('prism:volume', '')
            except:
              volume = ""

            try:
              issn=results['abstracts-retrieval-
response']['coredata'].get('prism:issn','')
            except:
              issn=""

            try:
              date=results['abstracts-retrieval-
response']['coredata']['prism:coverDate']
              date = date[0:4]
            except:
              date=""

            try:
              doi= results['abstracts-retrieval-
response']['coredata'].get('prism:doi','')
            except:
              doi=""

            try:
```

```
              cites= int(results['abstracts-retrieval-
response']['coredata']['citedby-count'])
            except:
              cites = 0

            if (gravar == 1):
              try:
                sql = "insert into
orcid_scopus(authors,title,year,source,cited,issn,eid,doi) values ("
                sql = sql + s(authors) + "," +s(title) + "," + date + "," +
s(journal) + "," + str(cites) + ","
                sql = sql + s(issn) + "," + s(sid) + "," +s(doi) + ")"
                cur = con.cursor()
                cur.execute(sql)
                cur.execute("commit")
              except:
                print authors
                print title
                print date
                print journal
                print str(cites)
                print issn
                print doi
                gravar = 0
            else:
              print results

        if (gravar == 1):

          sql = "select * from orcid_author_scopus where eid = " + s(sid) + "
and " + "orcid = " + s(ORCID_ID)
          cur3 = con.cursor()
          cur3.execute(sql)
          resultSet = cur3.fetchone()
          if (resultSet == None):
            sql = "insert into orcid_author_scopus(orcid,eid) values (" +
s(ORCID_ID) + "," + s(sid) + ")"
            cur = con.cursor()
            cur.execute(sql)
            cur.execute("commit")
          cur3.close

        cur2.close
cursor.close
con.close()
print "ligacao a Base de dados encerrada com sucesso"
```