def name2abrev(name\_str):

name\_str = name\_str.lower()

first\_letter = name\_str[0]

first\_letter = first\_letter + '. '

temp = name.split(' ')

surname = temp[-1]

abrev\_string = first\_letter + surname

return abrev\_string

df['Abbreviation'] = ''

for index, row in df.iterrows():

tmp = row['Author']

tmp = tmp.split(';')

abrev\_list = [name2abrev(author) for author in tmp]

row['Abbreviation'] = abrev\_list