**Identification of factors (5 topics)**

(0, '0.012\*"innovation" + 0.011\*"covid19" + 0.010\*"policy" + 0.010\*"study" + 0.009\*"pandemic" + 0.007\*"research" + 0.007\*"development" + 0.007\*"â©" + 0.006\*"economic" + 0.006\*"social"')

(1, '0.008\*"policy" + 0.008\*"innovation" + 0.005\*"covid19" + 0.005\*"government" + 0.005\*"state" + 0.004\*"pandemic" + 0.004\*"â©" + 0.004\*"interest" + 0.003\*"european" + 0.003\*"conflict"')

(2, '0.017\*"health" + 0.013\*"covid19" + 0.012\*"pandemic" + 0.009\*"care" + 0.009\*"policy" + 0.007\*"research" + 0.006\*"innovation" + 0.006\*"â©" + 0.006\*"system" + 0.006\*"service"')

(3, '0.011\*"innovation" + 0.010\*"covid19" + 0.010\*"policy" + 0.008\*"pandemic" + 0.008\*"technology" + 0.007\*"health" + 0.007\*"public" + 0.007\*"data" + 0.006\*"development" + 0.006\*"country"')

(4, '0.011\*"de" + 0.009\*"energy" + 0.006\*"la" + 0.005\*"emission" + 0.004\*"carbon" + 0.004\*"covid19" + 0.004\*"le" + 0.004\*"plastic" + 0.003\*"vaccine" + 0.003\*"en"')

**Identification of factors (10 topics)**

(0, '0.014\*"innovation" + 0.012\*"covid19" + 0.011\*"policy" + 0.009\*"pandemic" + 0.006\*"economic" + 0.006\*"â©" + 0.006\*"industry" + 0.006\*"development" + 0.006\*"paper" + 0.005\*"study" + 0.005\*"enterprise" + 0.005\*"government" + 0.005\*"impact" + 0.005\*"effect" + 0.004\*"firm"')

(1, '0.010\*"innovation" + 0.007\*"data" + 0.007\*"model" + 0.007\*"social" + 0.007\*"research" + 0.006\*"study" + 0.006\*"interest" + 0.006\*"conflict" + 0.005\*"covid19" + 0.004\*"development" + 0.004\*"paper" + 0.004\*"policy" + 0.004\*"â©" + 0.003\*"science" + 0.003\*"technique"')

(2, '0.005\*"author" + 0.005\*"policy" + 0.004\*"model" + 0.004\*"analysis" + 0.004\*"covid19" + 0.003\*"need" + 0.003\*"â©" + 0.003\*"market" + 0.003\*"pharmacy" + 0.003\*"class" + 0.003\*"innovation" + 0.003\*"support" + 0.002\*"pandemic" + 0.002\*"pharmacist" + 0.002\*"result"')

(3, '0.011\*"study" + 0.010\*"innovation" + 0.009\*"digital" + 0.008\*"covid19" + 0.008\*"policy" + 0.008\*"pandemic" + 0.008\*"technology" + 0.007\*"research" + 0.007\*"education" + 0.007\*"data" + 0.006\*"â©" + 0.005\*"learning" + 0.005\*"business" + 0.004\*"sector" + 0.004\*"development"')

(4, '0.014\*"covid19" + 0.009\*"health" + 0.009\*"research" + 0.009\*"pandemic" + 0.007\*"policy" + 0.006\*"study" + 0.006\*"innovation" + 0.006\*"â©" + 0.005\*"vaccine" + 0.005\*"2020" + 0.005\*"patient" + 0.004\*"care" + 0.004\*"response" + 0.004\*"technology" + 0.004\*"system"')

(5, '0.018\*"de" + 0.011\*"la" + 0.006\*"mask" + 0.005\*"en" + 0.005\*"work" + 0.004\*"skill" + 0.004\*"prostate" + 0.004\*"cancer" + 0.003\*"el" + 0.003\*"quarantine" + 0.003\*"set" + 0.003\*"face" + 0.003\*"question" + 0.003\*"essential" + 0.003\*"los"')

(6, '0.029\*"health" + 0.014\*"covid19" + 0.013\*"pandemic" + 0.013\*"care" + 0.010\*"service" + 0.009\*"innovation" + 0.008\*"policy" + 0.008\*"system" + 0.007\*"healthcare" + 0.006\*"â©" + 0.006\*"public" + 0.005\*"patient" + 0.005\*"need" + 0.005\*"data" + 0.005\*"practice"')

(7, '0.007\*"policy" + 0.007\*"innovation" + 0.006\*"covid19" + 0.006\*"development" + 0.005\*"public" + 0.005\*"eu" + 0.005\*"market" + 0.005\*"â©" + 0.004\*"economic" + 0.004\*"research" + 0.004\*"country" + 0.004\*"green" + 0.004\*"vaccine" + 0.004\*"right" + 0.004\*"capital"')

(8, '0.015\*"policy" + 0.012\*"covid19" + 0.011\*"pandemic" + 0.010\*"food" + 0.009\*"innovation" + 0.008\*"development" + 0.008\*"research" + 0.007\*"â©" + 0.007\*"system" + 0.007\*"social" + 0.005\*"sustainable" + 0.005\*"economic" + 0.005\*"crisis" + 0.005\*"new" + 0.005\*"public"')

(9, '0.007\*"learning" + 0.007\*"de" + 0.007\*"school" + 0.005\*"covid19" + 0.005\*"risk" + 0.004\*"child" + 0.004\*"education" + 0.004\*"policy" + 0.004\*"le" + 0.004\*"innovation" + 0.004\*"â©" + 0.004\*"pandemic" + 0.004\*"research" + 0.003\*"tourism" + 0.003\*"2020"')

**Text mining**

**Model development**