

Table S1. Five-top papers for each estimated topic, based on a topic-document probability matrix. DOI (digital object identifier).

Topic	Title	DOI	Probability
t_1	Update on use of chloroquine/hydroxychloroquine to treat coronavirus disease 2019 (covid-19).	10.5582/bst.2020.03072	0.9540
t_1	Efficacy of favipiravir in covid-19 treatment: a multi-center randomized study.	10.1007/s00705-021-04956-9	0.9534
t_1	An investigation into the beneficial effects of high-dose interferon beta 1-a, compared to low-dose interferon beta 1-a in severe covid-19: the coviferon ii randomized controlled trial.	10.1016/j.intimp.2021.107916	0.9330
t_1	Convalescence plasma treatment of covid-19: results from a prematurely terminated randomized controlled open-label study in southern Sweden.	10.1186/s13104-021-05847-7	0.9276
t_1	Triple therapy with hydroxychloroquine, azithromycin, and ciclesonide for covid-19 pneumonia.	10.1016/j.jmii.2020.09.003	0.9272
t_2	Hand hygiene knowledge and perception among the healthcare workers during the covid-19 pandemic in qassim, Saudi Arabia: a cross-sectional survey.	10.3390/healthcare9121627	0.9888
t_2	Did iranians respect health measures during nowruz holidays? A study on iranians' knowledge. attitude and practice toward covid-19.	10.15167/2421-4248/jpmh2020.61.4.1576	0.9866
t_2	Covid-19 knowledge, attitude and frequent hand hygiene practices among taxi drivers and associated factors in urban areas of Ethiopia.	10.1371/journal.pone.0253452	0.9856
t_2	Knowledge, attitudes and practices of the chinese public with respect to coronavirus disease (covid-19): an online cross-sectional survey.	10.1186/s12889-020-09961-2	0.9849
t_2	Healthcare workers' knowledge. attitude. and practice regarding personal protective equipment for the prevention of covid-19.	10.2147/JMDH.S293717	0.9844
t_3	Satisfaction with and feasibility of prenatal counseling via telemedicine: a prospective cohort study.	10.1089/tmj.2021.0309	0.9621
t_3	Increasing pediatric audiology services via telehealth.	10.1055/s-0041-1731694	0.9594
t_3	Delivering an advice and guidance service in neurology.	10.1136/practneurol-2021-003100	0.9550
t_3	The value of physical examination in the era of telemedicine.	10.4997/JRCPE.2021.122	0.9529
t_3	Rapid introduction of virtual consultation in a hospital-based consultant-led antenatal clinic to minimise exposure of pregnant women to covid-19.	10.1136/bmjoq-2021-001622	0.9518
t_4	Bnt162b2 vaccination elicits strong serological immune responses against sars-cov-2 including variants of concern in elderly convalescents.	10.3389/fimmu.2021.743422	0.9820

Topic	Title	DOI	Probability
t_4	Evaluation of the quantiferon sars-cov-2 assay to assess cellular immunogenicity of the bnt162b2 mrna covid-19 vaccine in individuals with low and high humoral response.	10.1080/21645515.2021.1991710	0.9812
t_4	Immunogenicity of a heterologous prime-boost covid-19 vaccination with mrna and inactivated virus vaccines compared with homologous vaccination strategy against sars-cov-2 variants.	10.3390/vaccines10010072	0.9801
t_4	Immunogenicity of anti-sars-cov-2 vaccines in common variable immunodeficiency.	10.1007/s10875-021-01174-5	0.9794
t_4	Prospective cohort study of the kinetics of specific antibodies to sars-cov-2 infection and to four sars-cov-2 vaccines available in Serbia, and vaccine effectiveness: a 3-month interim report.	10.3390/vaccines9091031	0.9793
t_5	Automatic covid-19 detection using exemplar hybrid deep features with x-ray images.	10.3390/ijerph18158052	0.9910
t_5	Autocovnet: unsupervised feature learning using autoencoder and feature merging for detection of covid-19 from chest x-ray images.	10.1016/j.bbe.2021.09.004	0.9901
t_5	Truncating a densely connected convolutional neural network with partial layer freezing and feature fusion for diagnosing covid-19 from chest x-rays.	10.1016/j.mex.2021.101408	0.9894
t_5	Run length encoding based wavelet features for covid-19 detection in x-rays.	10.1259/bjro.20200028	0.9882
t_5	Learning-to-augment strategy using noisy and denoised data: improving generalizability of deep cnn for the detection of covid-19 in x-ray images.	10.1016/j.compbiomed.2021.104704	0.9877
t_6	Impacts of socio-economic determinants, spatial distance and climate factors on the confirmed cases and deaths of covid-19 in china.	10.1371/journal.pone.0255229	0.9908
t_6	The effect of control measures on covid-19 transmission in South Korea.	10.1371/journal.pone.0249262	0.9908
t_6	Impact of Wuhan lockdown on the spread of covid-19 in china: a study based on the data of population mobility.	10.3724/zdxbyxb-2021-0021	0.9907
t_6	Use of public data to describe covid-19 contact tracing in Hubei province and non-Hubei provinces in china between 20 january and 29 february 2020.	10.5365/wpsar.2021.12.3.808	0.9904
t_6	Dynamics of covid-19 pandemic in India and Pakistan: a metapopulation modelling approach.	10.1016/j.idm.2021.10.001	0.9900
t_7	Lessons from learners: adapting medical student education during and post covid-19.	10.1097/ACM.0000000000004148	0.9916
t_7	Penn access summer scholars program: a mixed method analysis of a virtual offering of a premedical diversity summer enrichment program.	10.1080/10872981.2021.1905918	0.9914
t_7	Exploring the perceptions of the educational environment in online acupuncture learning during the covid-19 pandemic.	10.1177/09645284211056657	0.9908

Topic	Title	DOI	Probability
t_7	Student perceptions of academic engagement and student-teacher relationships in problem-based learning.	10.3389/fpsyg.2021.713057	0.9899
t_7	Online family medicine training amid the covid-19 crisis in ksa: a mixed-method study.	10.1016/j.jtumed.2021.12.001	0.9899
t_8	Clinical characteristics and risk factors for mortality of covid-19 patients with diabetes in Wuhan, china: a two-center, retrospective study.	10.2337/dc20-0598	0.9914
t_8	Incidence and risk factors for acute kidney injury and its effect on mortality in patients hospitalized from covid-19.	10.1016/j.mayocpiqo.2020.07.003	0.9912
t_8	Type 2 diabetes and covid-19-related mortality in the critical care setting: a national cohort study in England, march-july 2020.	10.2337/dc20-1444	0.9907
t_8	History of heart failure in patients with coronavirus disease 2019: insights from a French registry.	10.1016/j.acvd.2021.04.003	0.9903
t_8	The characteristics and clinical course of patients with covid-19 who received invasive mechanical ventilation in osaka, japan.	10.1016/j.jid.2020.10.051	0.9901
t_9	Covid-19 and conjunctivitis: a meta-analysis.	10.1177/25158414211003368	0.8958
t_9	Reporting and methodological quality of covid-19 systematic reviews needs to be improved: an evidence mapping.	10.1016/j.jclinepi.2021.02.021	0.8684
t_9	Why are ethnic minorities worse affected?	10.1016/S0262-4079(20)30790-9	0.8585
t_9	Neuroimaging findings in covid-19: a narrative review.	10.1016/j.neulet.2020.135529	0.8585
t_9	Epidemiology, methodological quality, and reporting characteristics of systematic reviews and meta-analyses on coronavirus disease 2019: a cross-sectional study.	10.1097/MD.00000000000027950	0.8518
t_10	Characteristics of covid-19 myocarditis with and without multisystem inflammatory syndrome.	10.1016/j.amjcard.2021.12.031	0.9858
t_10	Abdominal us in pediatric inflammatory multisystem syndrome associated with covid-19.	10.1148/radiol.211737	0.9678
t_10	Extracardiac imaging findings in covid-19-associated multisystem inflammatory syndrome in children.	10.1007/s00247-020-04929-1	0.9655
t_10	Longitudinal assessment of cardiac outcomes of multisystem inflammatory syndrome in children associated with covid-19 infections.	10.1161/JAHA.121.023251	0.9636
t_10	Heterogeneity of post-covid impairment: interim analysis of a prospective study from Czechia.	10.1186/s12985-021-01546-8	0.9621
t_11	Modelling studies reveal the importance of the c-terminal inter motif loop of nsp1 as a promising target site for drug discovery and screening of potential phytochemicals to combat sars-cov-2.	10.1016/j.jmgm.2021.107920	0.9926
t_11	Ace2-independent interaction of sars-cov-2 spike protein with human epithelial cells is inhibited by unfractionated heparin.	10.3390/cells10061419	0.9916

Topic	Title	DOI	Probability
t_11	A molecular dynamics simulation study of the ace2 receptor with screened natural inhibitors to identify novel drug candidate against covid-19.	10.7717/peerj.11171	0.9911
t_11	Synthesis and identification of novel potential molecules against covid-19 main protease through structure-guided virtual screening approach.	10.1007/s12010-021-03615-8	0.9906
t_11	Identifying the natural polyphenol catechin as a multi-targeted agent against sars-cov-2 for the plausible therapy of covid-19: an integrated computational approach.	10.1093/bib/bbaa378	0.9905
t_12	Rapid sars-cov-2 antigen detection assay in comparison with real-time rt-pcr assay for laboratory diagnosis of covid-19 in Thailand.	10.1186/s12985-020-01452-5	0.9923
t_12	Clinical evaluation of self-collected saliva by quantitative reverse transcription-pcr (rt-qpcr), direct rt-qpcr, reverse transcription-loop-mediated isothermal amplification, and a rapid antigen test to diagnose covid-19.	10.1128/JCM.01438-20	0.9914
t_12	Analytical and clinical performance of droplet digital pcr in the detection and quantification of sars-cov-2.	10.1007/s40291-021-00547-1	0.9902
t_12	Evaluation of the commercially available lightmix™ modular e-gene kit using clinical and proficiency testing specimens for sars-cov-2 detection.	10.1016/j.jcv.2020.104476	0.9895
t_12	Pooling nasopharyngeal swab specimens to improve testing capacity for sars-cov-2 by real-time rt-pcr.	10.1186/s12575-021-00156-6	0.9895
t_13	Do pre-existing anxiety-related and mood disorders differentially impact covid-19 stress responses and coping?	10.1016/j.janxdis.2020.102271	0.9923
t_13	Psychological correlates of poor sleep quality among U.S. young adults during the covid-19 pandemic.	10.1016/j.sleep.2020.12.009	0.9913
t_13	The role of equanimity in mediating the relationship between psychological distress and social isolation during covid-19.	10.1016/j.jad.2021.09.087	0.9908
t_13	Resilience and the role of depressed and anxious mood in the relationship between perceived social isolation and perceived sleep quality during the covid-19 pandemic.	10.1007/s12529-020-09945-x	0.9907
t_13	Age differences in stress, life changes, and social ties during the covid-19 pandemic: implications for psychological well-being.	10.1093/geront/gnaa204	0.9907
t_14	The impact of the novel coronavirus pandemic on gastrointestinal operative volume in the united states.	10.1007/s00464-021-08477-z	0.9893
t_14	Care as usual: an acceptable strategy to apply during the covid-19 pandemic in a French tertiary gynecologic oncology department.	10.3389/fonc.2021.653009	0.9887
t_14	The effect of the covid-19 lockdown on hand trauma surgery utilization.	10.1302/2633-1462.110.BJO-2020-0133.R1	0.9881
t_14	Covid-19 and changes in neurosurgical workload in the United Kingdom.	10.1016/j.wneu.2021.01.094	0.9877

Topic	Title	DOI	Probability
t_14	Impact of the coronavirus disease 2019 pandemic on volume of thoracic aortic surgery on a national level.	10.1093/ejcts/ezab550	0.9872
t_15	Covid-19 pathology on various organs and regenerative medicine and stem cell-based interventions.	10.3389/fcell.2021.675310	0.9906
t_15	Endothelial cell dysfunction, coagulation, and angiogenesis in coronavirus disease 2019 (covid-19).	10.1016/j.mvr.2021.104188	0.9905
t_15	The impact of the renin-angiotensin-aldosterone system on inflammation, coagulation, and atherothrombotic complications, and to aggravated covid-19.	10.3389/fphar.2021.640185	0.9904
t_15	Sars-cov-2 induces mitochondrial dysfunction and cell death by oxidative stress/inflammation in leukocytes of covid-19 patients.	10.1080/10715762.2021.2005247	0.9902
t_15	Perspectives on mesenchymal stem/progenitor cells and their derivatives as potential therapies for lung damage caused by covid-19.	10.4252/wjsc.v12.i9.1013	0.9896
t_16	Community health workers at the dawn of a new era: 2. Planning, coordination, and partnerships.	10.1186/s12961-021-00753-7	0.9927
t_16	Building the evidence base for global health policy: the need to strengthen institutional networks, geographical representation, and global collaboration.	10.1136/bmjgh-2021-006852	0.9904
t_16	Industrial policy for sustainable human development in the post-covid19 era.	10.1016/j.worlddev.2020.105215	0.9903
t_16	Application of supply chain approach to improving hazard-resilient health services: framework analysis for asean and options of implementation.	10.1007/s40847-020-00134-w	0.9903
t_16	Best practice guidance for creation and management of innovations in health care and information and communications technologies.	10.1089/omi.2021.0043	0.9888
