

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|--------------------------|-----------------|-----------------|
| 446 papers | 32,032 citations | 93 h-index | 166 g-index |
| 502 ext. papers | 40,475 ext. citations | 11.5 avg, IF | 8.19 L-index |

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 446 | Projecting the transmission dynamics of SARS-CoV-2 through the postpandemic period. <i>Science</i> , 2020 , 368, 860-868 | 33.3 | 1506 |
| 445 | BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Mass Vaccination Setting. <i>New England Journal of Medicine</i> , 2021 , 384, 1412-1423 | 59.2 | 1137 |
| 444 | Transmission dynamics and control of severe acute respiratory syndrome. <i>Science</i> , 2003 , 300, 1966-70 | 33.3 | 1042 |
| 443 | How generation intervals shape the relationship between growth rates and reproductive numbers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007 , 274, 599-604 | 4.4 | 772 |
| 442 | Estimating clinical severity of COVID-19 from the transmission dynamics in Wuhan, China. <i>Nature Medicine</i> , 2020 , 26, 506-510 | 50.5 | 766 |
| 441 | Defining the Epidemiology of Covid-19 - Studies Needed. <i>New England Journal of Medicine</i> , 2020 , 382, 1194-1196 | 59.2 | 702 |
| 440 | Serotype replacement in disease after pneumococcal vaccination. <i>Lancet, The</i> , 2011 , 378, 1962-73 | 40 | 661 |
| 439 | Negative controls: a tool for detecting confounding and bias in observational studies. <i>Epidemiology</i> , 2010 , 21, 383-8 | 3.1 | 623 |
| 438 | Transmissibility of 1918 pandemic influenza. <i>Nature</i> , 2004 , 432, 904-6 | 50.4 | 578 |
| 437 | Recognition of pneumolysin by Toll-like receptor 4 confers resistance to pneumococcal infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1966-71 | 11.5 | 563 |
| 436 | Covid-19 Breakthrough Infections in Vaccinated Health Care Workers. <i>New England Journal of Medicine</i> , 2021 , 385, 1474-1484 | 59.2 | 459 |
| 435 | Public health interventions and epidemic intensity during the 1918 influenza pandemic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7582-7 | 11.5 | 450 |
| 434 | Absolute humidity and the seasonal onset of influenza in the continental United States. <i>PLoS Biology</i> , 2010 , 8, e1000316 | 9.7 | 420 |
| 433 | Evaluating treatment protocols to prevent antibiotic resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 12106-11 | 11.5 | 368 |
| 432 | Interleukin-17A mediates acquired immunity to pneumococcal colonization. <i>PLoS Pathogens</i> , 2008 , 4, e1000159 | 7.6 | 364 |
| 431 | Use of whole genome sequencing to estimate the mutation rate of Mycobacterium tuberculosis during latent infection. <i>Nature Genetics</i> , 2011 , 43, 482-6 | 36.3 | 319 |
| 430 | Antimicrobial use and antimicrobial resistance: a population perspective. <i>Emerging Infectious Diseases</i> , 2002 , 8, 347-54 | 10.2 | 319 |

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| 429 | Mycobacterium tuberculosis mutation rate estimates from different lineages predict substantial differences in the emergence of drug-resistant tuberculosis. <i>Nature Genetics</i> , 2013 , 45, 784-90 | 36.3 | 297 |
| 428 | The epidemiology of antibiotic resistance in hospitals: paradoxes and prescriptions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 1938-43 | 11.5 | 296 |
| 427 | CD4+ T cells mediate antibody-independent acquired immunity to pneumococcal colonization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4848-53 | 11.5 | 294 |
| 426 | Model-informed COVID-19 vaccine prioritization strategies by age and serostatus. <i>Science</i> , 2021 , 371, 916-921 | 33.3 | 284 |
| 425 | Antibiotics in agriculture and the risk to human health: how worried should we be?. <i>Evolutionary Applications</i> , 2015 , 8, 240-7 | 4.8 | 267 |
| 424 | Ecological theory suggests that antimicrobial cycling will not reduce antimicrobial resistance in hospitals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13285-90 | 11.5 | 267 |
| 423 | Population genomics of post-vaccine changes in pneumococcal epidemiology. <i>Nature Genetics</i> , 2013 , 45, 656-63 | 36.3 | 266 |
| 422 | Association of serotype with risk of death due to pneumococcal pneumonia: a meta-analysis. <i>Clinical Infectious Diseases</i> , 2010 , 51, 692-9 | 11.6 | 262 |
| 421 | Virulence and transmissibility of pathogens: what is the relationship?. <i>Trends in Microbiology</i> , 1997 , 5, 31-7 | 12.4 | 253 |
| 420 | Estimates of the prevalence of pandemic (H1N1) 2009, United States, April-July 2009. <i>Emerging Infectious Diseases</i> , 2009 , 15, 2004-7 | 10.2 | 249 |
| 419 | Continued impact of pneumococcal conjugate vaccine on carriage in young children. <i>Pediatrics</i> , 2009 , 124, e1-11 | 7.4 | 234 |
| 418 | The severity of pandemic H1N1 influenza in the United States, from April to July 2009: a Bayesian analysis. <i>PLoS Medicine</i> , 2009 , 6, e1000207 | 11.6 | 230 |
| 417 | Viral shedding and clinical illness in naturally acquired influenza virus infections. <i>Journal of Infectious Diseases</i> , 2010 , 201, 1509-16 | 7 | 229 |
| 416 | Safety of the BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Setting. <i>New England Journal of Medicine</i> , 2021 , 385, 1078-1090 | 59.2 | 225 |
| 415 | Visualizing pneumococcal infections in the lungs of live mice using bioluminescent <i>Streptococcus pneumoniae</i> transformed with a novel gram-positive lux transposon. <i>Infection and Immunity</i> , 2001 , 69, 3350-8 | 3.7 | 217 |
| 414 | Pneumococcal capsular polysaccharide structure predicts serotype prevalence. <i>PLoS Pathogens</i> , 2009 , 5, e1000476 | 7.6 | 215 |
| 413 | Bacterial vaccines and serotype replacement: lessons from <i>Haemophilus influenzae</i> and prospects for <i>Streptococcus pneumoniae</i> . <i>Emerging Infectious Diseases</i> , 1999 , 5, 336-45 | 10.2 | 214 |
| 412 | The population genetics of antibiotic resistance. <i>Clinical Infectious Diseases</i> , 1997 , 24 Suppl 1, S9-16 | 11.6 | 211 |

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|-----|--|------|-----|
| 411 | Genomic epidemiology of the Escherichia coli O104:H4 outbreaks in Europe, 2011. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3065-70 | 11.5 | 204 |
| 410 | Effectiveness of a third dose of the BNT162b2 mRNA COVID-19 vaccine for preventing severe outcomes in Israel: an observational study. <i>Lancet, The</i> , 2021 , 398, 2093-2100 | 4.0 | 198 |
| 409 | Population biology, evolution, and infectious disease: convergence and synthesis. <i>Science</i> , 1999 , 283, 806-9 | 33.3 | 191 |
| 408 | Vaccination against colonizing bacteria with multiple serotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 6571-6 | 11.5 | 190 |
| 407 | Real-time influenza forecasts during the 2012-2013 season. <i>Nature Communications</i> , 2013 , 4, 2837 | 17.4 | 188 |
| 406 | Aggregated mobility data could help fight COVID-19. <i>Science</i> , 2020 , 368, 145-146 | 33.3 | 183 |
| 405 | Estimation of the reproductive number and the serial interval in early phase of the 2009 influenza A/H1N1 pandemic in the USA. <i>Influenza and Other Respiratory Viruses</i> , 2009 , 3, 267-76 | 5.6 | 182 |
| 404 | The population dynamics of antimicrobial chemotherapy. <i>Antimicrobial Agents and Chemotherapy</i> , 1997 , 41, 363-73 | 5.9 | 181 |
| 403 | Antibiotic resistance--the interplay between antibiotic use in animals and human beings. <i>Lancet Infectious Diseases, The</i> , 2003 , 3, 47-51 | 25.5 | 175 |
| 402 | Geographic diversity and temporal trends of antimicrobial resistance in <i>Streptococcus pneumoniae</i> in the United States. <i>Nature Medicine</i> , 2003 , 9, 424-30 | 50.5 | 173 |
| 401 | THE EVOLUTION OF VIRULENCE IN PATHOGENS WITH VERTICAL AND HORIZONTAL TRANSMISSION. <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 1729-1741 | 3.8 | 173 |
| 400 | Influenza seasonality: lifting the fog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3645-6 | 11.5 | 166 |
| 399 | Antiviral resistance and the control of pandemic influenza. <i>PLoS Medicine</i> , 2007 , 4, e15 | 11.6 | 163 |
| 398 | Genomic epidemiology of <i>Neisseria gonorrhoeae</i> with reduced susceptibility to cefixime in the USA: a retrospective observational study. <i>Lancet Infectious Diseases, The</i> , 2014 , 14, 220-6 | 25.5 | 162 |
| 397 | Antibody-independent, interleukin-17A-mediated, cross-serotype immunity to pneumococci in mice immunized intranasally with the cell wall polysaccharide. <i>Infection and Immunity</i> , 2006 , 74, 2187-95 | 3.7 | 148 |
| 396 | Absolute humidity and pandemic versus epidemic influenza. <i>American Journal of Epidemiology</i> , 2011 , 173, 127-35 | 3.8 | 147 |
| 395 | Intranasal immunization with killed unencapsulated whole cells prevents colonization and invasive disease by capsulated pneumococci. <i>Infection and Immunity</i> , 2001 , 69, 4870-3 | 3.7 | 147 |
| 394 | Interference between <i>Streptococcus pneumoniae</i> and <i>Staphylococcus aureus</i> : In vitro hydrogen peroxide-mediated killing by <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2006 , 188, 4996-5001 | 3.5 | 144 |

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| 393 | Control-group selection importance in studies of antimicrobial resistance: examples applied to <i>Pseudomonas aeruginosa</i> , Enterococci, and <i>Escherichia coli</i> . <i>Clinical Infectious Diseases</i> , 2002 , 34, 1558-63 | 11.6 | 144 |
| 392 | The rise and fall of antimicrobial resistance. <i>Trends in Microbiology</i> , 2001 , 9, 438-44 | 12.4 | 142 |
| 391 | Genomic Epidemiology of Gonococcal Resistance to Extended-Spectrum Cephalosporins, Macrolides, and Fluoroquinolones in the United States, 2000-2013. <i>Journal of Infectious Diseases</i> , 2016 , 214, 1579-1587 | 7 | 141 |
| 390 | Practical considerations for measuring the effective reproductive number, Rt. <i>PLoS Computational Biology</i> , 2020 , 16, e1008409 | 5 | 140 |
| 389 | Human Challenge Studies to Accelerate Coronavirus Vaccine Licensure. <i>Journal of Infectious Diseases</i> , 2020 , 221, 1752-1756 | 7 | 138 |
| 388 | Managing and reducing uncertainty in an emerging influenza pandemic. <i>New England Journal of Medicine</i> , 2009 , 361, 112-5 | 59.2 | 137 |
| 387 | Weather-based prediction of <i>Plasmodium falciparum</i> malaria in epidemic-prone regions of Ethiopia I. Patterns of lagged weather effects reflect biological mechanisms. <i>Malaria Journal</i> , 2004 , 3, 41 | 3.6 | 137 |
| 386 | Origin and proliferation of multiple-drug resistance in bacterial pathogens. <i>Microbiology and Molecular Biology Reviews</i> , 2015 , 79, 101-16 | 13.2 | 134 |
| 385 | The analysis of hospital infection data using hidden Markov models. <i>Biostatistics</i> , 2004 , 5, 223-37 | 3.7 | 134 |
| 384 | Cross-reactive memory T cells and herd immunity to SARS-CoV-2. <i>Nature Reviews Immunology</i> , 2020 , 20, 709-713 | 36.5 | 132 |
| 383 | Serum serotype-specific pneumococcal anticapsular immunoglobulin g concentrations after immunization with a 9-valent conjugate pneumococcal vaccine correlate with nasopharyngeal acquisition of pneumococcus. <i>Journal of Infectious Diseases</i> , 2005 , 192, 367-76 | 7 | 129 |
| 382 | Inefficient cytotoxic T lymphocyte-mediated killing of HIV-1-infected cells in vivo. <i>PLoS Biology</i> , 2006 , 4, e90 | 9.7 | 128 |
| 381 | Potential Biases in Estimating Absolute and Relative Case-Fatality Risks during Outbreaks. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0003846 | 4.8 | 124 |
| 380 | On the Effect of Age on the Transmission of SARS-CoV-2 in Households, Schools, and the Community. <i>Journal of Infectious Diseases</i> , 2021 , 223, 362-369 | 7 | 123 |
| 379 | Optimizing infectious disease interventions during an emerging epidemic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 923-8 | 11.5 | 122 |
| 378 | Niche and neutral effects of acquired immunity permit coexistence of pneumococcal serotypes. <i>Science</i> , 2012 , 335, 1376-80 | 33.3 | 121 |
| 377 | Diversity and antibiotic resistance among nonvaccine serotypes of <i>Streptococcus pneumoniae</i> carriage isolates in the post-heptavalent conjugate vaccine era. <i>Journal of Infectious Diseases</i> , 2007 , 195, 347-52 | 7 | 118 |
| 376 | Predicting the epidemic sizes of influenza A/H1N1, A/H3N2, and B: a statistical method. <i>PLoS Medicine</i> , 2011 , 8, e1001051 | 11.6 | 113 |

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| 375 | Improving the estimation of influenza-related mortality over a seasonal baseline. <i>Epidemiology</i> , 2012 , 23, 829-38 | 3.1 | 110 |
| 374 | How Can Vaccines Contribute to Solving the Antimicrobial Resistance Problem?. <i>MBio</i> , 2016 , 7, | 7.8 | 109 |
| 373 | Social distancing strategies for curbing the COVID-19 epidemic | | 109 |
| 372 | Within-host bacterial diversity hinders accurate reconstruction of transmission networks from genomic distance data. <i>PLoS Computational Biology</i> , 2014 , 10, e1003549 | 5 | 108 |
| 371 | Secular trends in <i>Helicobacter pylori</i> seroprevalence in adults in the United States: evidence for sustained race/ethnic disparities. <i>American Journal of Epidemiology</i> , 2012 , 175, 54-9 | 3.8 | 105 |
| 370 | Concentration-dependent selection of small phenotypic differences in TEM beta-lactamase-mediated antibiotic resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2000 , 44, 2485-91 | 5.9 | 104 |
| 369 | Inference of seasonal and pandemic influenza transmission dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2723-8 | 11.5 | 102 |
| 368 | Epidemiologic evidence for serotype-specific acquired immunity to pneumococcal carriage. <i>Journal of Infectious Diseases</i> , 2008 , 197, 1511-8 | 7 | 102 |
| 367 | Antibiotics in agriculture: when is it time to close the barn door?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5752-4 | 11.5 | 102 |
| 366 | Patterns of antigenic diversity and the mechanisms that maintain them. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 787-802 | 4.1 | 101 |
| 365 | The role of absolute humidity on transmission rates of the COVID-19 outbreak | | 101 |
| 364 | Measuring and interpreting associations between antibiotic use and penicillin resistance in <i>Streptococcus pneumoniae</i> . <i>Clinical Infectious Diseases</i> , 2001 , 32, 1044-54 | 11.6 | 100 |
| 363 | Are anticapsular antibodies the primary mechanism of protection against invasive pneumococcal disease?. <i>PLoS Medicine</i> , 2005 , 2, e15 | 11.6 | 99 |
| 362 | Reopening Primary Schools during the Pandemic. <i>New England Journal of Medicine</i> , 2020 , 383, 981-985 | 59.2 | 99 |
| 361 | Age- and serogroup-related differences in observed durations of nasopharyngeal carriage of penicillin-resistant pneumococci. <i>Journal of Clinical Microbiology</i> , 2007 , 45, 948-52 | 9.7 | 98 |
| 360 | Competition among <i>Streptococcus pneumoniae</i> for intranasal colonization in a mouse model. <i>Vaccine</i> , 2000 , 18, 2895-901 | 4.1 | 98 |
| 359 | Understanding COVID-19 vaccine efficacy. <i>Science</i> , 2020 , 370, 763-765 | 33.3 | 98 |
| 358 | Beneficial and perverse effects of isoniazid preventive therapy for latent tuberculosis infection in HIV-tuberculosis coinfecting populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7042-7 | 11.5 | 97 |

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| 357 | Enhancing disease surveillance with novel data streams: challenges and opportunities. <i>EPJ Data Science</i> , 2015 , 4, | 3.4 | 96 |
| 356 | No coexistence for free: neutral null models for multistrain pathogens. <i>Epidemics</i> , 2009 , 1, 2-13 | 5.1 | 96 |
| 355 | Projecting the transmission dynamics of SARS-CoV-2 through the post-pandemic period | | 96 |
| 354 | Serotype specific invasive capacity and persistent reduction in invasive pneumococcal disease. <i>Vaccine</i> , 2010 , 29, 283-8 | 4.1 | 93 |
| 353 | Oseltamivir and risk of lower respiratory tract complications in patients with flu symptoms: a meta-analysis of eleven randomized clinical trials. <i>Clinical Infectious Diseases</i> , 2011 , 53, 277-9 | 11.6 | 92 |
| 352 | Age- and sex-related risk factors for influenza-associated mortality in the United States between 1997-2007. <i>American Journal of Epidemiology</i> , 2014 , 179, 156-67 | 3.8 | 87 |
| 351 | Ethical alternatives to experiments with novel potential pandemic pathogens. <i>PLoS Medicine</i> , 2014 , 11, e1001646 | 11.6 | 84 |
| 350 | Projected benefits of active surveillance for vancomycin-resistant enterococci in intensive care units. <i>Clinical Infectious Diseases</i> , 2004 , 38, 1108-15 | 11.6 | 82 |
| 349 | The evolution of virulence in sexually transmitted HIV/AIDS. <i>Journal of Theoretical Biology</i> , 1995 , 174, 427-40 | 2.3 | 82 |
| 348 | Evolution of antibiotic resistance is linked to any genetic mechanism affecting bacterial duration of carriage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1075-1080 | 11.5 | 81 |
| 347 | Impact of more than a decade of pneumococcal conjugate vaccine use on carriage and invasive potential in Native American communities. <i>Journal of Infectious Diseases</i> , 2012 , 205, 280-8 | 7 | 81 |
| 346 | Toward economic evaluation of the value of vaccines and other health technologies in addressing AMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12911-12919 | 11.5 | 81 |
| 345 | Seasonality of antibiotic-resistant streptococcus pneumoniae that causes acute otitis media: a clue for an antibiotic-restriction policy?. <i>Journal of Infectious Diseases</i> , 2008 , 197, 1094-102 | 7 | 80 |
| 344 | Antibody-independent, CD4+ T-cell-dependent protection against pneumococcal colonization elicited by intranasal immunization with purified pneumococcal proteins. <i>Infection and Immunity</i> , 2007 , 75, 5460-4 | 3.7 | 79 |
| 343 | SpxB is a suicide gene of Streptococcus pneumoniae and confers a selective advantage in an in vivo competitive colonization model. <i>Journal of Bacteriology</i> , 2007 , 189, 6532-9 | 3.5 | 79 |
| 342 | Improving the evidence base for decision making during a pandemic: the example of 2009 influenza A/H1N1. <i>Biosecurity and Bioterrorism</i> , 2011 , 9, 89-115 | | 78 |
| 341 | Population dynamics of tuberculosis treatment: mathematical models of the roles of non-compliance and bacterial heterogeneity in the evolution of drug resistance. <i>International Journal of Tuberculosis and Lung Disease</i> , 1998 , 2, 187-99 | 2.1 | 78 |
| 340 | Estimating the proportion of bystander selection for antibiotic resistance among potentially pathogenic bacterial flora. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E11988-E11995 | 11.5 | 76 |

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| 339 | The prevalence and risk factors for pneumococcal colonization of the nasopharynx among children in Kilifi District, Kenya. <i>PLoS ONE</i> , 2012 , 7, e30787 | 3.7 | 75 |
| 338 | How to maintain surveillance for novel influenza A H1N1 when there are too many cases to count. <i>Lancet, The</i> , 2009 , 374, 1209-11 | 4.0 | 75 |
| 337 | Protection against nasopharyngeal colonization by <i>Streptococcus pneumoniae</i> is mediated by antigen-specific CD4+ T cells. <i>Infection and Immunity</i> , 2008 , 76, 2678-84 | 3.7 | 75 |
| 336 | On the relative role of different age groups in influenza epidemics. <i>Epidemics</i> , 2015 , 13, 10-16 | 5.1 | 71 |
| 335 | Generation interval contraction and epidemic data analysis. <i>Mathematical Biosciences</i> , 2008 , 213, 71-9 | 3.9 | 71 |
| 334 | Association of the pneumococcal pilus with certain capsular serotypes but not with increased virulence. <i>Journal of Clinical Microbiology</i> , 2007 , 45, 1684-9 | 9.7 | 71 |
| 333 | Sequence tag-based analysis of microbial population dynamics. <i>Nature Methods</i> , 2015 , 12, 223-6, 3 p following 226 | 21.6 | 70 |
| 332 | Frequency-dependent selection in vaccine-associated pneumococcal population dynamics. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1950-1960 | 12.3 | 69 |
| 331 | Studies needed to address public health challenges of the 2009 H1N1 influenza pandemic: insights from modeling. <i>PLoS Medicine</i> , 2010 , 7, e1000275 | 11.6 | 69 |
| 330 | Host Population Structure and the Evolution of Virulence: A "Law of Diminishing Returns". <i>Evolution; International Journal of Organic Evolution</i> , 1995 , 49, 743 | 3.8 | 69 |
| 329 | The distribution of antibiotic use and its association with antibiotic resistance. <i>ELife</i> , 2018 , 7, | 8.9 | 69 |
| 328 | Construction of otherwise isogenic serotype 6B, 7F, 14, and 19F capsular variants of <i>Streptococcus pneumoniae</i> strain TIGR4. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 7364-70 | 4.8 | 68 |
| 327 | Risk of clinical sequelae after the acute phase of SARS-CoV-2 infection: retrospective cohort study. <i>BMJ, The</i> , 2021 , 373, n1098 | 5.9 | 67 |
| 326 | Epidemiologic data and pathogen genome sequences: a powerful synergy for public health. <i>Genome Biology</i> , 2014 , 15, 538 | 18.3 | 66 |
| 325 | Changes in severity of 2009 pandemic A/H1N1 influenza in England: a Bayesian evidence synthesis. <i>BMJ, The</i> , 2011 , 343, d5408 | 5.9 | 66 |
| 324 | Estimating rates of carriage acquisition and clearance and competitive ability for pneumococcal serotypes in Kenya with a Markov transition model. <i>Epidemiology</i> , 2012 , 23, 510-9 | 3.1 | 65 |
| 323 | Vaccine production, distribution, access, and uptake. <i>Lancet, The</i> , 2011 , 378, 428-38 | 4.0 | 64 |
| 322 | What is the mechanism for persistent coexistence of drug-susceptible and drug-resistant strains of <i>Streptococcus pneumoniae</i> ?. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 905-19 | 4.1 | 64 |

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| 321 | Estimated Demand for US Hospital Inpatient and Intensive Care Unit Beds for Patients With COVID-19 Based on Comparisons With Wuhan and Guangzhou, China. <i>JAMA Network Open</i> , 2020 , 3, e208297 | 10.4 | 63 |
| 320 | Hedging against antiviral resistance during the next influenza pandemic using small stockpiles of an alternative chemotherapy. <i>PLoS Medicine</i> , 2009 , 6, e1000085 | 11.6 | 63 |
| 319 | Pneumococcal carriage and antibiotic resistance in young children before 13-valent conjugate vaccine. <i>Pediatric Infectious Disease Journal</i> , 2012 , 31, 249-54 | 3.4 | 63 |
| 318 | Antibodies to conserved pneumococcal antigens correlate with, but are not required for, protection against pneumococcal colonization induced by prior exposure in a mouse model. <i>Infection and Immunity</i> , 2005 , 73, 7043-6 | 3.7 | 62 |
| 317 | Weather-based prediction of Plasmodium falciparum malaria in epidemic-prone regions of Ethiopia II. Weather-based prediction systems perform comparably to early detection systems in identifying times for interventions. <i>Malaria Journal</i> , 2004 , 3, 44 | 3.6 | 62 |
| 316 | Streptococcus pneumoniae capsular serotype invasiveness correlates with the degree of factor H binding and opsonization with C3b/iC3b. <i>Infection and Immunity</i> , 2013 , 81, 354-63 | 3.7 | 61 |
| 315 | Rates of acquisition and clearance of pneumococcal serotypes in the nasopharynxes of children in Kilifi District, Kenya. <i>Journal of Infectious Diseases</i> , 2012 , 206, 1020-9 | 7 | 61 |
| 314 | Viral factors in influenza pandemic risk assessment. <i>ELife</i> , 2016 , 5, | 8.9 | 61 |
| 313 | Estimating epidemiologic dynamics from cross-sectional viral load distributions. <i>Science</i> , 2021 , 373, | 33.3 | 61 |
| 312 | Measurement of Vaccine Direct Effects Under the Test-Negative Design. <i>American Journal of Epidemiology</i> , 2018 , 187, 2686-2697 | 3.8 | 60 |
| 311 | Preprints: An underutilized mechanism to accelerate outbreak science. <i>PLoS Medicine</i> , 2018 , 15, e1002549 | 11.6 | 60 |
| 310 | Fractional dosing of yellow fever vaccine to extend supply: a modelling study. <i>Lancet, The</i> , 2016 , 388, 2904-2911 | 40 | 59 |
| 309 | Shared Genomic Variants: Identification of Transmission Routes Using Pathogen Deep-Sequence Data. <i>American Journal of Epidemiology</i> , 2017 , 186, 1209-1216 | 3.8 | 59 |
| 308 | Comparative genomics of recent Shiga toxin-producing Escherichia coli O104:H4: short-term evolution of an emerging pathogen. <i>MBio</i> , 2013 , 4, e00452-12 | 7.8 | 59 |
| 307 | Virulence and transmission modes of two microsporidia in Daphnia magna. <i>Parasitology</i> , 1995 , 111, 133-142 | 14.2 | 58 |
| 306 | Observational studies and the difficult quest for causality: lessons from vaccine effectiveness and impact studies. <i>International Journal of Epidemiology</i> , 2016 , 45, 2060-2074 | 7.8 | 57 |
| 305 | Quantifying interhospital patient sharing as a mechanism for infectious disease spread. <i>Infection Control and Hospital Epidemiology</i> , 2010 , 31, 1160-9 | 2 | 56 |
| 304 | Incremental increase in fitness cost with increased beta -lactam resistance in pneumococci evaluated by competition in an infant rat nasal colonization model. <i>Journal of Infectious Diseases</i> , 2006 , 193, 1296-303 | 7 | 55 |

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|-----|---|------|----|
| 303 | Impaired innate and adaptive immunity to <i>Streptococcus pneumoniae</i> and its effect on colonization in an infant mouse model. <i>Infection and Immunity</i> , 2009 , 77, 1613-22 | 3.7 | 54 |
| 302 | Strain characteristics of <i>Streptococcus pneumoniae</i> carriage and invasive disease isolates during a cluster-randomized clinical trial of the 7-valent pneumococcal conjugate vaccine. <i>Journal of Infectious Diseases</i> , 2007 , 196, 1221-7 | 7 | 54 |
| 301 | Re-emergence of the type 1 pilus among <i>Streptococcus pneumoniae</i> isolates in Massachusetts, USA. <i>Vaccine</i> , 2010 , 28, 4842-6 | 4.1 | 53 |
| 300 | Modeling community- and individual-level effects of child-care center attendance on pneumococcal carriage. <i>Clinical Infectious Diseases</i> , 2005 , 40, 1215-22 | 11.6 | 53 |
| 299 | Reconstructing influenza incidence by deconvolution of daily mortality time series. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21825-9 | 11.5 | 52 |
| 298 | Using pneumococcal carriage data to monitor postvaccination changes in invasive disease. <i>American Journal of Epidemiology</i> , 2013 , 178, 1488-95 | 3.8 | 50 |
| 297 | Carried pneumococci in Massachusetts children: the contribution of clonal expansion and serotype switching. <i>Pediatric Infectious Disease Journal</i> , 2011 , 30, 302-8 | 3.4 | 50 |
| 296 | Is methicillin-resistant <i>Staphylococcus aureus</i> replacing methicillin-susceptible <i>S. aureus</i> ?. <i>Journal of Antimicrobial Chemotherapy</i> , 2011 , 66, 2199-214 | 5.1 | 50 |
| 295 | Decreased infectivity following BNT162b2 vaccination: A prospective cohort study in Israel. <i>Lancet Regional Health - Europe, The</i> , 2021 , 7, 100150 | | 50 |
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