

Jim F Huggett

List of Publications by Year in Descending Order

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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.

111
papers

17,994
citations

40
h-index

126
g-index

126
ext. papers

21,045
ext. citations

7.3
avg, IF

6.28
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 111 | RNA reference materials with defined viral RNA loads of SARS-CoV-2-A useful tool towards a better PCR assay harmonization.. <i>PLoS ONE</i> , 2022 , 17, e0262656 | 3.7 | 2 |
| 110 | Systematic review with meta-analysis of diagnostic test accuracy for COVID-19 by mass spectrometry. <i>Metabolism: Clinical and Experimental</i> , 2022 , 126, 154922 | 12.7 | 0 |
| 109 | Metrological framework to support accurate, reliable, and reproducible nucleic acid measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 414, 791 | 4.4 | 4 |
| 108 | The dangers of using Cq to quantify nucleic acid in biological samples; a lesson from COVID-19. <i>Clinical Chemistry</i> , 2021 , | 5.5 | 4 |
| 107 | An assessment of the reproducibility of reverse transcription digital PCR quantification of HIV-1. <i>Methods</i> , 2021 , | 4.6 | 6 |
| 106 | COVID-19 new diagnostics development: novel detection methods for SARS-CoV-2 infection and considerations for their translation to routine use. <i>Current Opinion in Pulmonary Medicine</i> , 2021 , 27, 155-162 | 3.62 | 3 |
| 105 | The performance of human cytomegalovirus digital PCR reference measurement procedure in seven external quality assessment schemes over four years. <i>Methods</i> , 2021 , | 4.6 | 4 |
| 104 | An inter-laboratory study to investigate the impact of the bioinformatics component on microbiome analysis using mock communities. <i>Scientific Reports</i> , 2021 , 11, 10590 | 4.9 | 3 |
| 103 | Detection of complex DNA in CD34-positive peripheral blood mononuclear cells of asymptomatic tuberculosis contacts: an observational study. <i>Lancet Microbe, The</i> , 2021 , 2, e267-e275 | 22.2 | 14 |
| 102 | Pushing the Envelope with Clinical Use of Digital PCR. <i>Clinical Chemistry</i> , 2021 , 67, 921-923 | 5.5 | |
| 101 | Current and future challenges in quality assurance in molecular diagnostics. <i>Clinica Chimica Acta</i> , 2021 , 519, 239-246 | 6.2 | 2 |
| 100 | Digital PCR can augment the interpretation of RT-qPCR Cq values for SARS-CoV-2 diagnostics. <i>Methods</i> , 2021 , | 4.6 | 4 |
| 99 | Single base mutations in the nucleocapsid gene of SARS-CoV-2 affects amplification efficiency of sequence variants and may lead to assay failure.. <i>Journal of Clinical Virology Plus</i> , 2021 , 1, 100037 | | 3 |
| 98 | Comparison of SARS-CoV-2 N gene real-time RT-PCR targets and commercially available mastermixes. <i>Journal of Virological Methods</i> , 2021 , 295, 114215 | 2.6 | 4 |
| 97 | Report of the 2019 NIST-FDA workshop on standards for next generation sequencing detection of viral adventitious agents in biologics and biomanufacturing. <i>Biologicals</i> , 2020 , 64, 76-82 | 1.8 | 4 |
| 96 | Discordant bioinformatic predictions of antimicrobial resistance from whole-genome sequencing data of bacterial isolates: an inter-laboratory study. <i>Microbial Genomics</i> , 2020 , 6, | 4.4 | 33 |
| 95 | The Digital MIQE Guidelines Update: Minimum Information for Publication of Quantitative Digital PCR Experiments for 2020. <i>Clinical Chemistry</i> , 2020 , 66, 1012-1029 | 5.5 | 85 |

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| 94 | STROBE-metagenomics: a STROBE extension statement to guide the reporting of metagenomics studies. <i>Lancet Infectious Diseases, The</i> , 2020 , 20, e251-e260 | 25.5 | 11 |
| 93 | Cautionary Note on Contamination of Reagents Used for Molecular Detection of SARS-CoV-2. <i>Clinical Chemistry</i> , 2020 , 66, 1369-1372 | 5.5 | 20 |
| 92 | Quantitative analysis of human endogenous retrovirus-K transcripts in postmortem premotor cortex fails to confirm elevated expression of HERV-K RNA in amyotrophic lateral sclerosis. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 45 | 7.3 | 28 |
| 91 | Chemical mixtures and fluorescence in situ hybridization analysis of natural microbial community in the Tiber river. <i>Science of the Total Environment</i> , 2019 , 673, 7-19 | 10.2 | 10 |
| 90 | Response to the Letter from Garcia-Montojo and colleagues concerning our paper entitled, Quantitative analysis of human endogenous retrovirus-K transcripts in postmortem premotor cortex fails to confirm elevated expression of HERV-K RNA in amyotrophic lateral sclerosis. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 102 | 7.3 | 7 |
| 89 | Integrating informatics tools and portable sequencing technology for rapid detection of resistance to anti-tuberculous drugs. <i>Genome Medicine</i> , 2019 , 11, 41 | 14.4 | 95 |
| 88 | Improving the standardization of mRNA measurement by RT-qPCR. <i>Biomolecular Detection and Quantification</i> , 2018 , 15, 13-17 | 12 | 14 |
| 87 | Assessment of Digital PCR as a Primary Reference Measurement Procedure to Support Advances in Precision Medicine. <i>Clinical Chemistry</i> , 2018 , 64, 1296-1307 | 5.5 | 28 |
| 86 | Development of a highly sensitive liquid biopsy platform to detect clinically-relevant cancer mutations at low allele fractions in cell-free DNA. <i>PLoS ONE</i> , 2018 , 13, e0194630 | 3.7 | 81 |
| 85 | Inter-laboratory assessment of different digital PCR platforms for quantification of human cytomegalovirus DNA. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 2601-2614 | 4.4 | 22 |
| 84 | RT-qPCR and RT-Digital PCR: A Comparison of Different Platforms for the Evaluation of Residual Disease in Chronic Myeloid Leukemia. <i>Clinical Chemistry</i> , 2017 , 63, 525-531 | 5.5 | 51 |
| 83 | Instability of 8E5 calibration standard revealed by digital PCR risks inaccurate quantification of HIV DNA in clinical samples by qPCR. <i>Scientific Reports</i> , 2017 , 7, 1209 | 4.9 | 22 |
| 82 | International Interlaboratory Digital PCR Study Demonstrating High Reproducibility for the Measurement of a Rare Sequence Variant. <i>Analytical Chemistry</i> , 2017 , 89, 1724-1733 | 7.8 | 31 |
| 81 | qPCR primer design revisited. <i>Biomolecular Detection and Quantification</i> , 2017 , 14, 19-28 | 12 | 109 |
| 80 | G6PD deficiency alleles in a malaria-endemic region in the Western Brazilian Amazon. <i>Malaria Journal</i> , 2017 , 16, 253 | 3.6 | 11 |
| 79 | The use of digital PCR to improve the application of quantitative molecular diagnostic methods for tuberculosis. <i>BMC Infectious Diseases</i> , 2016 , 16, 366 | 4 | 33 |
| 78 | International Comparison of Enumeration-Based Quantification of DNA Copy-Concentration Using Flow Cytometric Counting and Digital Polymerase Chain Reaction. <i>Analytical Chemistry</i> , 2016 , 88, 12169-12176 | 7.8 | 22 |
| 77 | Fundamentals of multiplexing with digital PCR. <i>Biomolecular Detection and Quantification</i> , 2016 , 10, 15-23 | 12 | 100 |

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| 76 | Detection of Rare Drug Resistance Mutations by Digital PCR in a Human Influenza A Virus Model System and Clinical Samples. <i>Journal of Clinical Microbiology</i> , 2016 , 54, 392-400 | 9.7 | 45 |
| 75 | Selection of phage-displayed human antibody fragments specific for CD1b presenting the Mycobacterium tuberculosis glycolipid Ac2SGL. <i>International Journal of Mycobacteriology</i> , 2016 , 5, 120-7 ^{0.9} | | 4 |
| 74 | Next-Generation Sequencing-Assisted DNA-Based Digital PCR for a Personalized Approach to the Detection and Quantification of Residual Disease in Chronic Myeloid Leukemia Patients. <i>Journal of Molecular Diagnostics</i> , 2016 , 18, 176-89 | 5.1 | 30 |
| 73 | The variability and reproducibility of whole genome sequencing technology for detecting resistance to anti-tuberculous drugs. <i>Genome Medicine</i> , 2016 , 8, 132 | 14.4 | 31 |
| 72 | An international comparability study on quantification of mRNA gene expression ratios: CCQM-P103.1. <i>Biomolecular Detection and Quantification</i> , 2016 , 8, 15-28 | 12 | 11 |
| 71 | qPCR, dPCR, NGS - A journey. <i>Biomolecular Detection and Quantification</i> , 2015 , 3, A1-5 | 12 | 16 |
| 70 | Considerations for digital PCR as an accurate molecular diagnostic tool. <i>Clinical Chemistry</i> , 2015 , 61, 79-85 | 35 | 291 |
| 69 | Standardization of Nucleic Acid Tests for Clinical Measurements of Bacteria and Viruses. <i>Journal of Clinical Microbiology</i> , 2015 , 53, 2008-14 | 9.7 | 30 |
| 68 | International interlaboratory study comparing single organism 16S rRNA gene sequencing data: Beyond consensus sequence comparisons. <i>Biomolecular Detection and Quantification</i> , 2015 , 3, 17-24 | 12 | 3 |
| 67 | Highly reproducible absolute quantification of Mycobacterium tuberculosis complex by digital PCR. <i>Analytical Chemistry</i> , 2015 , 87, 3706-13 | 7.8 | 71 |
| 66 | Clinical features, microbiology and surgical outcomes of infective endocarditis: a 13-year study from a UK tertiary cardiothoracic referral centre. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2015 , 108, 219-29 | 2.7 | 24 |
| 65 | Towards standardisation of cell-free DNA measurement in plasma: controls for extraction efficiency, fragment size bias and quantification. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 6499-512 | 4.4 | 204 |
| 64 | Considerations for accurate gene expression measurement by reverse transcription quantitative PCR when analysing clinical samples. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 6471-83 | 4.4 | 56 |
| 63 | Comparative study of sensitivity, linearity, and resistance to inhibition of digital and nondigital polymerase chain reaction and loop mediated isothermal amplification assays for quantification of human cytomegalovirus. <i>Analytical Chemistry</i> , 2014 , 86, 4387-94 | 7.8 | 101 |
| 62 | Making standards for quantitative real-time pneumococcal PCR. <i>Biomolecular Detection and Quantification</i> , 2014 , 2, 1-3 | 12 | 7 |
| 61 | A novel approach for evaluating the performance of real time quantitative loop-mediated isothermal amplification-based methods. <i>Biomolecular Detection and Quantification</i> , 2014 , 2, 4-10 | 12 | 20 |
| 60 | Assessing the accuracy of quantitative molecular microbial profiling. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 21476-91 | 6.3 | 16 |
| 59 | Quantification of epigenetic biomarkers: an evaluation of established and emerging methods for DNA methylation analysis. <i>BMC Genomics</i> , 2014 , 15, 1174 | 4.5 | 31 |

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| 58 | Minimum information necessary for quantitative real-time PCR experiments. <i>Methods in Molecular Biology</i> , 2014 , 1160, 5-17 | 1.4 | 52 |
| 57 | Phage display of functional Bingle-chain T-cell receptor molecules specific for CD1b:AcBGL complexes from Mycobacterium tuberculosis-infected cells. <i>BMC Immunology</i> , 2013 , 14 Suppl 1, S2 | 3.7 | 4 |
| 56 | Progress in metagenomics requires a balanced appraisal of the available technologies. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2013 , 32, 1097-8 | 5.3 | |
| 55 | Considerations for the development and application of control materials to improve metagenomic microbial community profiling. <i>Accreditation and Quality Assurance</i> , 2013 , 18, 77-83 | 0.7 | 15 |
| 54 | The need for transparency and good practices in the qPCR literature. <i>Nature Methods</i> , 2013 , 10, 1063-7 | 21.6 | 197 |
| 53 | Application of next generation qPCR and sequencing platforms to mRNA biomarker analysis. <i>Methods</i> , 2013 , 59, 89-100 | 4.6 | 48 |
| 52 | The digital MIQE guidelines: Minimum Information for Publication of Quantitative Digital PCR Experiments. <i>Clinical Chemistry</i> , 2013 , 59, 892-902 | 5.5 | 554 |
| 51 | A comparison of miRNA isolation and RT-qPCR technologies and their effects on quantification accuracy and repeatability. <i>BioTechniques</i> , 2013 , 54, 155-64 | 2.5 | 91 |
| 50 | Methods for applying accurate digital PCR analysis on low copy DNA samples. <i>PLoS ONE</i> , 2013 , 8, e58177 | 3.7 | 106 |
| 49 | Evaluation of digital PCR for absolute RNA quantification. <i>PLoS ONE</i> , 2013 , 8, e75296 | 3.7 | 122 |
| 48 | Direct processing of clinically relevant large volume samples for the detection of sexually transmitted infectious agents from urine on a microfluidic device. <i>Analytical Methods</i> , 2012 , 4, 2141 | 3.2 | 3 |
| 47 | Comparison of microfluidic digital PCR and conventional quantitative PCR for measuring copy number variation. <i>Nucleic Acids Research</i> , 2012 , 40, e82 | 20.1 | 283 |
| 46 | Quality assessment of biobanked nucleic acid extracts for downstream molecular analysis. <i>Biopreservation and Biobanking</i> , 2012 , 10, 266-75 | 2.1 | 9 |
| 45 | Evaluation of digital PCR for absolute DNA quantification. <i>Analytical Chemistry</i> , 2011 , 83, 6474-84 | 7.8 | 239 |
| 44 | Standardisation and reporting for nucleic acid quantification. <i>Accreditation and Quality Assurance</i> , 2011 , 16, 399-405 | 0.7 | 33 |
| 43 | <i>Pneumocystis jirovecii</i> in pleural infection: a nucleic acid amplification study. <i>Thorax</i> , 2011 , 66, 450-1 | 7.3 | 3 |
| 42 | Primer sequence disclosure: a clarification of the MIQE guidelines. <i>Clinical Chemistry</i> , 2011 , 57, 919-21 | 5.5 | 52 |
| 41 | Rapid and accurate detection of Mycobacterium tuberculosis in sputum samples by Cepheid Xpert MTB/RIF assay—a clinical validation study. <i>PLoS ONE</i> , 2011 , 6, e20458 | 3.7 | 108 |

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|----|--|------|------|
| 40 | Trials and tribulations of an African-led research and capacity development programme: the case for EDCTP investments. <i>Tropical Medicine and International Health</i> , 2010 , 15, 489-94 | 2.3 | 17 |
| 39 | Variation in gamma interferon responses to different infecting strains of Mycobacterium tuberculosis in acid-fast bacillus smear-positive patients and household contacts in Antananarivo, Madagascar. <i>Vaccine Journal</i> , 2010 , 17, 1094-103 | | 37 |
| 38 | Seasonal variation in mortality of Pneumocystis jirovecii pneumonia in HIV-infected patients. <i>International Journal of STD and AIDS</i> , 2010 , 21, 497-503 | 1.4 | 9 |
| 37 | Accurate and rapid identification of bacterial species from positive blood cultures with a DNA-based microarray platform: an observational study. <i>Lancet, The</i> , 2010 , 375, 224-30 | 40 | 164 |
| 36 | Future diagnosis of sepsis [AuthorsReply]. <i>Lancet, The</i> , 2010 , 375, 1780 | 40 | |
| 35 | Expression of apoptosis-related genes in an Ethiopian cohort study correlates with tuberculosis clinical status. <i>European Journal of Immunology</i> , 2010 , 40, 291-301 | 6.1 | 20 |
| 34 | Ancient DNA (aDNA) studies of man and microbes: general similarities, specific differences. <i>International Journal of Osteoarchaeology</i> , 2010 , 20, 747-751 | 1.1 | 14 |
| 33 | Different screening strategies (single or dual) for the diagnosis of suspected latent tuberculosis: a cost effectiveness analysis. <i>BMC Pulmonary Medicine</i> , 2010 , 10, 7 | 3.5 | 61 |
| 32 | Implications of storing urinary DNA from different populations for molecular analyses. <i>PLoS ONE</i> , 2009 , 4, e6985 | 3.7 | 40 |
| 31 | Low sensitivity of a urine LAM-ELISA in the diagnosis of pulmonary tuberculosis. <i>BMC Infectious Diseases</i> , 2009 , 9, 141 | 4 | 57 |
| 30 | The MIQE guidelines: minimum information for publication of quantitative real-time PCR experiments. <i>Clinical Chemistry</i> , 2009 , 55, 611-22 | 5.5 | 9710 |
| 29 | Unreliable real-time PCR analysis of human endogenous retrovirus-W (HERV-W) RNA expression and DNA copy number in multiple sclerosis. <i>AIDS Research and Human Retroviruses</i> , 2009 , 25, 377-8; author reply 379-81 | 1.6 | 29 |
| 28 | Reflections on the white plague. <i>Lancet Infectious Diseases, The</i> , 2009 , 9, 197-202 | 25.5 | 20 |
| 27 | Rapid diagnosis of tuberculosis through the detection of mycobacterial DNA in urine by nucleic acid amplification methods. <i>Lancet Infectious Diseases, The</i> , 2009 , 9, 505-11 | 25.5 | 81 |
| 26 | Nucleic acid detection and quantification in the developing world. <i>Biochemical Society Transactions</i> , 2009 , 37, 419-23 | 5.1 | 13 |
| 25 | An assessment of air as a source of DNA contamination encountered when performing PCR. <i>Journal of Biomolecular Techniques</i> , 2009 , 20, 236-40 | 1.1 | 21 |
| 24 | Differential susceptibility of PCR reactions to inhibitors: an important and unrecognised phenomenon. <i>BMC Research Notes</i> , 2008 , 1, 70 | 2.3 | 150 |
| 23 | Gene expression of IL17 and IL23 in the lungs of patients with active tuberculosis. <i>Thorax</i> , 2008 , 63, 566-8.3 | 3.3 | 30 |

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| 22 | Development and evaluation of a real-time PCR assay for detection of <i>Pneumocystis jirovecii</i> DNA in bronchoalveolar lavage fluid of HIV-infected patients. <i>Thorax</i> , 2008 , 63, 154-9 | 7.3 | 91 |
| 21 | The pathogen recognition sensor, NOD2, is variably expressed in patients with pulmonary tuberculosis. <i>BMC Infectious Diseases</i> , 2007 , 7, 96 | 4 | 10 |
| 20 | The stability of mRNA encoding IL-4 is increased in pulmonary tuberculosis, while stability of mRNA encoding the antagonistic splice variant, IL-4delta2, is not. <i>Tuberculosis</i> , 2007 , 87, 237-41 | 2.6 | 15 |
| 19 | <i>Mycobacterium tuberculosis</i> induces selective up-regulation of TLRs in the mononuclear leukocytes of patients with active pulmonary tuberculosis. <i>Journal of Immunology</i> , 2006 , 176, 3010-8 | 5.3 | 43 |
| 18 | Problems of developing molecular diagnostic tests for opportunistic pathogens: the example of <i>Pneumocystis jirovecii</i> . <i>Journal of Eukaryotic Microbiology</i> , 2006 , 53 Suppl 1, S85-6 | 3.6 | 2 |
| 17 | Expression of IL-4 mRNA in peripheral blood mononuclear cells from normal donors in relation to expression of TLR2. <i>Immunology Letters</i> , 2006 , 106, 194-7 | 4.1 | |
| 16 | Interferon gamma assays for tuberculosis. <i>Lancet Infectious Diseases</i> , 2005 , 5, 324-5; author reply 325-7 | 25.5 | 6 |
| 15 | Lung remodeling in pulmonary tuberculosis. <i>Journal of Infectious Diseases</i> , 2005 , 192, 1201-9 | 7 | 177 |
| 14 | Utility of the antigen-specific interferon-gamma assay for the management of tuberculosis. <i>Current Opinion in Pulmonary Medicine</i> , 2005 , 11, 195-202 | 3 | 95 |
| 13 | Expression of a novel cytokine, IL-4delta2, in HIV and HIV-tuberculosis co-infection. <i>Aids</i> , 2005 , 19, 1601-6 | 5.5 | 21 |
| 12 | The implications of using an inappropriate reference gene for real-time reverse transcription PCR data normalization. <i>Analytical Biochemistry</i> , 2005 , 344, 141-3 | 3.1 | 493 |
| 11 | Real-time RT-PCR normalisation; strategies and considerations. <i>Genes and Immunity</i> , 2005 , 6, 279-84 | 4.4 | 1346 |
| 10 | In vivo and in vitro studies of a novel cytokine, interleukin 4delta2, in pulmonary tuberculosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 501-8 | 10.2 | 51 |
| 9 | Validation of housekeeping genes for normalizing RNA expression in real-time PCR. <i>BioTechniques</i> , 2004 , 37, 112-4, 116, 118-9 | 2.5 | 729 |
| 8 | Crohn's disease and MAP. <i>Lancet</i> , 2004 , 364, 2178; author reply 2178-9 | 4.0 | 3 |
| 7 | Type 2 cytokines in respiratory syncytial virus bronchiolitis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004 , 169, 1167-8; author reply 1168 | 10.2 | 4 |
| 6 | Tuberculosis: amplification-based clinical diagnostic techniques. <i>International Journal of Biochemistry and Cell Biology</i> , 2003 , 35, 1407-12 | 5.6 | 29 |
| 5 | The glutamate transporter GLAST-1 (EAAT-1) is expressed in the plasma membrane of osteocytes and is responsive to extracellular glutamate concentration. <i>Biochemical Society Transactions</i> , 2002 , 30, 890-3 | 5.1 | 29 |

- 4 The open reading frame of the Na(+)-dependent glutamate transporter GLAST-1 is expressed in bone and a splice variant of this molecule is expressed in bone and brain. *FEBS Letters*, **2000**, 485, 13-8 3.8 43
- 3 Polymerase chain reaction and infectious diseases 173-188
- 2 Comparison of SARS-CoV2 N gene real-time RT-PCR targets and commercially available mastermixes 7
- 1 Taking control of the polymerase chain reaction 129-152