

Jim F Huggett

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

23,247
citations

61857

43
h-index

21474

114
g-index

126
all docs

126
docs citations

126
times ranked

33547
citing authors

#	ARTICLE	IF	CITATIONS
1	The MIQE Guidelines: Minimum Information for Publication of Quantitative Real-Time PCR Experiments. <i>Clinical Chemistry</i> , 2009, 55, 611-622.	1.5	12,487
2	Real-time RT-PCR normalisation; strategies and considerations. <i>Genes and Immunity</i> , 2005, 6, 279-284.	2.2	1,576
3	Validation of housekeeping genes for normalizing RNA expression in real-time PCR. <i>BioTechniques</i> , 2004, 37, 112-119.	0.8	838
4	The Digital MIQE Guidelines: Minimum Information for Publication of Quantitative Digital PCR Experiments. <i>Clinical Chemistry</i> , 2013, 59, 892-902.	1.5	723
5	MIQE prÃ©cis: Practical implementation of minimum standard guidelines for fluorescence-based quantitative real-time PCR experiments. <i>BMC Molecular Biology</i> , 2010, 11, 74.	3.0	563
6	The implications of using an inappropriate reference gene for real-time reverse transcription PCR data normalization. <i>Analytical Biochemistry</i> , 2005, 344, 141-143.	1.1	556
7	Considerations for Digital PCR as an Accurate Molecular Diagnostic Tool. <i>Clinical Chemistry</i> , 2015, 61, 79-88.	1.5	359
8	Comparison of microfluidic digital PCR and conventional quantitative PCR for measuring copy number variation. <i>Nucleic Acids Research</i> , 2012, 40, e82-e82.	6.5	356
9	Evaluation of Digital PCR for Absolute DNA Quantification. <i>Analytical Chemistry</i> , 2011, 83, 6474-6484.	3.2	292
10	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, 6499-6512.	1.9	254
11	The need for transparency and good practices in the qPCR literature. <i>Nature Methods</i> , 2013, 10, 1063-1067.	9.0	251
12	Integrating informatics tools and portable sequencing technology for rapid detection of resistance to anti-tuberculous drugs. <i>Genome Medicine</i> , 2019, 11, 41.	3.6	248
13	The Digital MIQE Guidelines Update: Minimum Information for Publication of Quantitative Digital PCR Experiments for 2020. <i>Clinical Chemistry</i> , 2020, 66, 1012-1029.	1.5	247
14	Lung Remodeling in Pulmonary Tuberculosis. <i>Journal of Infectious Diseases</i> , 2005, 192, 1201-1209.	1.9	207
15	Differential susceptibility of PCR reactions to inhibitors: an important and unrecognised phenomenon. <i>BMC Research Notes</i> , 2008, 1, 70.	0.6	191
16	qPCR primer design revisited. <i>Biomolecular Detection and Quantification</i> , 2017, 14, 19-28.	7.0	187
17	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, 224-230.	6.3	186
18	Fundamentals of multiplexing with digital PCR. <i>Biomolecular Detection and Quantification</i> , 2016, 10, 15-23.	7.0	174

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19	Evaluation of Digital PCR for Absolute RNA Quantification. <i>PLoS ONE</i> , 2013, 8, e75296.	1.1	149
20	Rapid and Accurate Detection of <i>Mycobacterium tuberculosis</i> in Sputum Samples by Cepheid Xpert MTB/RIF Assay—A Clinical Validation Study. <i>PLoS ONE</i> , 2011, 6, e20458.	1.1	140
21	Methods for Applying Accurate Digital PCR Analysis on Low Copy DNA Samples. <i>PLoS ONE</i> , 2013, 8, e58177.	1.1	132
22	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, 4387-4394.	3.2	126
23	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.	1.1	117
24	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> , 2007, 63, 154-159.	2.7	110
25	Utility of the antigen-specific interferon- γ assay for the management of tuberculosis. <i>Current Opinion in Pulmonary Medicine</i> , 2005, 11, 195-202.	1.2	109
26	A comparison of miRNA isolation and RT-qPCR technologies and their effects on quantification accuracy and repeatability. <i>BioTechniques</i> , 2013, 54, 155-164.	0.8	106
27	Rapid diagnosis of tuberculosis through the detection of mycobacterial DNA in urine by nucleic acid amplification methods. <i>Lancet Infectious Diseases</i> , The, 2009, 9, 505-511.	4.6	104
28	Digital PCR as a Novel Technology and Its Potential Implications for Molecular Diagnostics. <i>Clinical Chemistry</i> , 2013, 59, 1691-1693.	1.5	97
29	Highly Reproducible Absolute Quantification of <i>Mycobacterium tuberculosis</i> Complex by Digital PCR. <i>Analytical Chemistry</i> , 2015, 87, 3706-3713.	3.2	87
30	Minimum Information Necessary for Quantitative Real-Time PCR Experiments. <i>Methods in Molecular Biology</i> , 2014, 1160, 5-17.	0.4	82
31	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.	0.8	79
32	Low sensitivity of a urine LAM-ELISA in the diagnosis of pulmonary tuberculosis. <i>BMC Infectious Diseases</i> , 2009, 9, 141.	1.3	69
33	Discordant bioinformatic predictions of antimicrobial resistance from whole-genome sequencing data of bacterial isolates: an inter-laboratory study. <i>Microbial Genomics</i> , 2020, 6, .	1.0	69
34	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.	1.5	66
35	Considerations for accurate gene expression measurement by reverse transcription quantitative PCR when analysing clinical samples. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6471-6483.	1.9	65
36	Primer Sequence Disclosure: A Clarification of the MIQE Guidelines. <i>Clinical Chemistry</i> , 2011, 57, 919-921.	1.5	63

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37	In Vivo and In Vitro Studies of a Novel Cytokine, Interleukin 4 β 2, in Pulmonary Tuberculosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 172, 501-508.	2.5	60
38	Application of next generation qPCR and sequencing platforms to mRNA biomarker analysis. <i>Methods</i> , 2013, 59, 89-100.	1.9	55
39	International Interlaboratory Digital PCR Study Demonstrating High Reproducibility for the Measurement of a Rare Sequence Variant. <i>Analytical Chemistry</i> , 2017, 89, 1724-1733.	3.2	54
40	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.	1.8	52
41	Assessment of Digital PCR as a Primary Reference Measurement Procedure to Support Advances in Precision Medicine. <i>Clinical Chemistry</i> , 2018, 64, 1296-1307.	1.5	50
42	Implications of Storing Urinary DNA from Different Populations for Molecular Analyses. <i>PLoS ONE</i> , 2009, 4, e6985.	1.1	48
43	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. <i>FEBS Letters</i> , 2000, 485, 13-18.	1.3	47
44	Cautionary Note on Contamination of Reagents Used for Molecular Detection of SARS-CoV-2. <i>Clinical Chemistry</i> , 2020, 66, 1369-1372.	1.5	46
45	<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, 3010-3018.	0.4	45
46	The variability and reproducibility of whole genome sequencing technology for detecting resistance to anti-tuberculous drugs. <i>Genome Medicine</i> , 2016, 8, 132.	3.6	44
47	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.	2.4	44
48	Variation in Gamma Interferon Responses to Different Infecting Strains of <i>Mycobacterium tuberculosis</i> in Acid-Fast Bacillus Smear-Positive Patients and Household Contacts in Antananarivo, Madagascar. <i>Vaccine Journal</i> , 2010, 17, 1094-1103.	3.2	41
49	The use of digital PCR to improve the application of quantitative molecular diagnostic methods for tuberculosis. <i>BMC Infectious Diseases</i> , 2016, 16, 366.	1.3	41
50	The Dangers of Using Cq to Quantify Nucleic Acid in Biological Samples: A Lesson From COVID-19. <i>Clinical Chemistry</i> , 2021, 68, 153-162.	1.5	41
51	Quantification of epigenetic biomarkers: an evaluation of established and emerging methods for DNA methylation analysis. <i>BMC Genomics</i> , 2014, 15, 1174.	1.2	40
52	STROBE-metagenomics: a STROBE extension statement to guide the reporting of metagenomics studies. <i>Lancet Infectious Diseases</i> , The, 2020, 20, e251-e260.	4.6	40
53	Detection of <i>Mycobacterium tuberculosis</i> complex DNA in CD34-positive peripheral blood mononuclear cells of asymptomatic tuberculosis contacts: an observational study. <i>Lancet Microbe</i> , The, 2021, 2, e267-e275.	3.4	38
54	Gene expression of IL17 and IL23 in the lungs of patients with active tuberculosis. <i>Thorax</i> , 2008, 63, 566.3-568.	2.7	36

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55	Standardisation and reporting for nucleic acid quantification. Accreditation and Quality Assurance, 2011, 16, 399-405.	0.4	36
56	Standardization of Nucleic Acid Tests for Clinical Measurements of Bacteria and Viruses. Journal of Clinical Microbiology, 2015, 53, 2008-2014.	1.8	36
57	Instability of 8E5 calibration standard revealed by digital PCR risks inaccurate quantification of HIV DNA in clinical samples by qPCR. Scientific Reports, 2017, 7, 1209.	1.6	35
58	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. Journal of Molecular Diagnostics, 2016, 18, 176-189.	1.2	34
59	Tuberculosis: amplification-based clinical diagnostic techniques. International Journal of Biochemistry and Cell Biology, 2003, 35, 1407-1412.	1.2	33
60	The glutamate transporter GLAST-I (EAAT-I) is expressed in the plasma membrane of osteocytes and is responsive to extracellular glutamate concentration. Biochemical Society Transactions, 2002, 30, 890-893.	1.6	32
61	A novel approach for evaluating the performance of real time quantitative loop-mediated isothermal amplification-based methods. Biomolecular Detection and Quantification, 2014, 2, 4-10.	7.0	32
62	International Comparison of Enumeration-Based Quantification of DNA Copy-Concentration Using Flow Cytometric Counting and Digital Polymerase Chain Reaction. Analytical Chemistry, 2016, 88, 12169-12176.	3.2	32
63	Clinical features, microbiology and surgical outcomes of infective endocarditis: a 13-year study from a UK tertiary cardiothoracic referral centre. QJM - Monthly Journal of the Association of Physicians, 2015, 108, 219-229.	0.2	30
64	Unreliable Real-Time PCR Analysis of Human Endogenous Retrovirus-W (HERV-W) RNA Expression and DNA Copy Number in Multiple Sclerosis. AIDS Research and Human Retroviruses, 2009, 25, 377-378.	0.5	29
65	Inter-laboratory assessment of different digital PCR platforms for quantification of human cytomegalovirus DNA. Analytical and Bioanalytical Chemistry, 2017, 409, 2601-2614.	1.9	29
66	RNA reference materials with defined viral RNA loads of SARS-CoV-2: A useful tool towards a better PCR assay harmonization. PLoS ONE, 2022, 17, e0262656.	1.1	29
67	An assessment of air as a source of DNA contamination encountered when performing PCR. Journal of Biomolecular Techniques, 2009, 20, 236-40.	0.8	28
68	Reflections on the white plague. Lancet Infectious Diseases, The, 2009, 9, 197-202.	4.6	26
69	Expression of a novel cytokine, IL-4delta2, in HIV and HIV-tuberculosis co-infection. Aids, 2005, 19, 1601-1606.	1.0	25
70	Trials and tribulations of an African-led research and capacity development programme: the case for EDCTP investments. Tropical Medicine and International Health, 2010, 15, 489-94.	1.0	24
71	Expression of apoptosis-related genes in an Ethiopian cohort study correlates with tuberculosis clinical status. European Journal of Immunology, 2010, 40, 291-301.	1.6	22
72	qPCR, dPCR, NGS - A journey. Biomolecular Detection and Quantification, 2015, 3, A1-A5.	7.0	21

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73	The stability of mRNA encoding IL-4 is increased in pulmonary tuberculosis, while stability of mRNA encoding the antagonistic splice variant, IL-4 ^{Δ2} , is not. <i>Tuberculosis</i> , 2007, 87, 237-241.	0.8	18
74	Ancient DNA (aDNA) studies of man and microbes: general similarities, specific differences. <i>International Journal of Osteoarchaeology</i> , 2010, 20, 747-751.	0.6	18
75	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.	0.4	18
76	Improving the standardization of mRNA measurement by RT-qPCR. <i>Biomolecular Detection and Quantification</i> , 2018, 15, 13-17.	7.0	18
77	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.	3.9	18
78	Assessing the Accuracy of Quantitative Molecular Microbial Profiling. <i>International Journal of Molecular Sciences</i> , 2014, 15, 21476-21491.	1.8	17
79	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.	1.6	17
80	Nucleic acid detection and quantification in the developing world. <i>Biochemical Society Transactions</i> , 2009, 37, 419-423.	1.6	16
81	An international comparability study on quantification of mRNA gene expression ratios: CCQM-P103.1. <i>Biomolecular Detection and Quantification</i> , 2016, 8, 15-28.	7.0	15
82	G6PD deficiency alleles in a malaria-endemic region in the Western Brazilian Amazon. <i>Malaria Journal</i> , 2017, 16, 253.	0.8	15
83	Systematic review with meta-analysis of diagnostic test accuracy for COVID-19 by mass spectrometry. <i>Metabolism: Clinical and Experimental</i> , 2022, 126, 154922.	1.5	15
84	An assessment of the reproducibility of reverse transcription digital PCR quantification of HIV-1. <i>Methods</i> , 2022, 201, 34-40.	1.9	14
85	Digital PCR can augment the interpretation of RT-qPCR Cq values for SARS-CoV-2 diagnostics. <i>Methods</i> , 2022, 201, 5-14.	1.9	14
86	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.	1.0	14
87	Quality Assessment of Biobanked Nucleic Acid Extracts for Downstream Molecular Analysis. <i>Biopreservation and Biobanking</i> , 2012, 10, 266-275.	0.5	13
88	Distribution of Tetrodotoxin in Pacific Oysters (<i>Crassostrea gigas</i>). <i>Marine Drugs</i> , 2021, 19, 84.	2.2	13
89	The pathogen recognition sensor, NOD2, is variably expressed in patients with pulmonary tuberculosis. <i>BMC Infectious Diseases</i> , 2007, 7, 96.	1.3	12
90	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.	1.2	12

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91	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.	0.5	11
92	Reproducibility of biomedical research – The importance of editorial vigilance. <i>Biomolecular Detection and Quantification</i> , 2017, 11, 1-3.	7.0	10
93	Screening for gene doping transgenes in horses via the use of massively parallel sequencing. <i>Gene Therapy</i> , 2022, 29, 236-246.	2.3	10
94	Interferon gamma assays for tuberculosis. <i>Lancet Infectious Diseases</i> , The, 2005, 5, 324-325.	4.6	9
95	Seasonal variation in mortality of <i>Pneumocystis jirovecii</i> pneumonia in HIV-infected patients. <i>International Journal of STD and AIDS</i> , 2010, 21, 497-503.	0.5	9
96	Making standards for quantitative real-time pneumococcal PCR. <i>Biomolecular Detection and Quantification</i> , 2014, 2, 1-3.	7.0	9
97	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.	2.4	9
98	Metrological framework to support accurate, reliable, and reproducible nucleic acid measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 791-806.	1.9	8
99	The performance of human cytomegalovirus digital PCR reference measurement procedure in seven external quality assessment schemes over four years. <i>Methods</i> , 2022, 201, 65-73.	1.9	6
100	Current and future challenges in quality assurance in molecular diagnostics. <i>Clinica Chimica Acta</i> , 2021, 519, 239-246.	0.5	6
101	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.	0.4	6
102	RT-qPCR Diagnostics: The ‘Drosten’ SARS-CoV-2 Assay Paradigm. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8702.	1.8	5
103	Crohn's disease and MAP. <i>Lancet</i> , The, 2004, 364, 2178.	6.3	4
104	Problems of Developing Molecular Diagnostic Tests for Opportunistic Pathogens: The Example of <i>Pneumocystis jirovecii</i> . <i>Journal of Eukaryotic Microbiology</i> , 2006, 53, S85-S86.	0.8	4
105	Phage display of functional $\hat{\pm}$ single-chain T-cell receptor molecules specific for CD1b:Ac2SGL complexes from <i>Mycobacterium tuberculosis</i> -infected cells. <i>BMC Immunology</i> , 2013, 14, S2.	0.9	4
106	Digital PCR, a technique for the future. <i>Biomolecular Detection and Quantification</i> , 2016, 10, 1.	7.0	4
107	Selection of phage-displayed human antibody fragments specific for CD1b presenting the <i>Mycobacterium tuberculosis</i> glycolipid Ac2SGL. <i>International Journal of Mycobacteriology</i> , 2016, 5, 120-127.	0.3	4
108	Type 2 Cytokines in Respiratory Syncytial Virus Bronchiolitis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 169, 1167-1168.	2.5	4

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109	Pneumocystis jirovecii in pleural infection: a nucleic acid amplification study. Thorax, 2011, 66, 450-451.	2.7	3
110	Direct processing of clinically relevant large volume samples for the detection of sexually transmitted infectious agents from urine on a microfluidic device. Analytical Methods, 2012, 4, 2141.	1.3	3
111	International interlaboratory study comparing single organism 16S rRNA gene sequencing data: Beyond consensus sequence comparisons. Biomolecular Detection and Quantification, 2015, 3, 17-24.	7.0	3
112	Molecular diagnostics of SARS-CoV-2: Findings of an international survey. Clinica Chimica Acta, 2022, 531, 237-242.	0.5	2
113	Assessing the Variability of Cell-Associated HIV DNA Quantification through a Multicenter Collaborative Study. Microbiology Spectrum, 2022, 10, .	1.2	2
114	How to make Mathematics Biology's next and better microscope. Biomolecular Detection and Quantification, 2014, 1, A1-A3.	7.0	1
115	Taking control of the polymerase chain reaction. , 0, , 129-152.		0
116	Expression of IL-4 mRNA in peripheral blood mononuclear cells from normal donors in relation to expression of TLR2. Immunology Letters, 2006, 106, 194-197.	1.1	0
117	Polymerase chain reaction and infectious diseases. , 2009, , 173-188.		0
118	Title is missing!. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2010, 104, 242.	0.7	0
119	Future diagnosis of sepsis – Authors' reply. Lancet, The, 2010, 375, 1780.	6.3	0
120	Progress in metagenomics requires a balanced appraisal of the available technologies. European Journal of Clinical Microbiology and Infectious Diseases, 2013, 32, 1097-1098.	1.3	0
121	Pushing the Envelope with Clinical Use of Digital PCR. Clinical Chemistry, 2021, 67, 921-923.	1.5	0
122	Applicability of Control Materials To Support Gene Promoter Characterization and Expression in Engineered Cells Using Digital PCR. Analytical Chemistry, 2022, , .	3.2	0