Maurice Boissinot

List of Publications by Year
in descending order

82	4,948	136950	91884
papers	citations	32 h-index	69 g-index

85	85	85	6309
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Colorimetric and Fluorometric Detection of Nucleic Acids Using Cationic Polythiophene Derivatives. Angewandte Chemie - International Edition, 2002, 41, 1548-1551.	13.8	472
2	Recombinase Polymerase Amplification for Diagnostic Applications. Clinical Chemistry, 2016, 62, 947-958.	3.2	457
3	Fluorescent Polymeric Transducer for the Rapid, Simple, and Specific Detection of Nucleic Acids at the Zeptomole Level. Journal of the American Chemical Society, 2004, 126, 4240-4244.	13.7	344
4	Complete Chemical Structure of Photoactive Yellow Protein: Novel Thioester-Linked 4-Hydroxycinnamyl Chromophore and Photocycle Chemistry. Biochemistry, 1994, 33, 14369-14377.	2.5	299
5	Vancomycin-Modified Nanoparticles for Efficient Targeting and Preconcentration of Gram-Positive and Gram-Negative Bacteria. ACS Nano, 2008, 2, 1777-1788.	14.6	282
6	Direct Molecular Detection of Nucleic Acids by Fluorescence Signal Amplification. Journal of the American Chemical Society, 2005, 127, 12673-12676.	13.7	255
7	The initial state of the human gut microbiome determines its reshaping by antibiotics. ISME Journal, 2016, 10, 707-720.	9.8	251
8	Rapid Detection of Clostridium difficile in Feces by Real-Time PCR. Journal of Clinical Microbiology, 2003, 41, 730-734.	3.9	199
9	Development of Conventional and Real-Time PCR Assays for the Rapid Detection of Group B Streptococci. Clinical Chemistry, 2000, 46, 324-331.	3.2	181
10	Human Mitochondrial Manganese Superoxide Dismutase Polymorphic Variant Ile58Thr Reduces Activity by Destabilizing the Tetrameric Interfaceâ€,â€¡. Biochemistry, 1996, 35, 4287-4297.	2.5	173
11	Influence of sequence mismatches on the specificity of recombinase polymerase amplification technology. Molecular and Cellular Probes, 2015, 29, 116-121.	2.1	143
12	Analytical comparison of nine PCR primer sets designed to detect the presence of Escherichia coli/Shigella in water samples. Water Research, 2009, 43, 3019-3028.	11.3	104
13	Microfluidic Device for Rapid (<15 min) Automated Microarray Hybridization. Clinical Chemistry, 2005, 51, 1836-1844.	3.2	103
14	Use of tuf Sequences for Genus-Specific PCR Detection and Phylogenetic Analysis of 28 Streptococcal Species. Journal of Clinical Microbiology, 2004, 42, 3686-3695.	3.9	102
15	Phylogeny of the Enterobacteriaceae based on genes encoding elongation factor Tu and F-ATPase Î²-subunit. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 2013-2025.	1.7	97
16	Sulfobacillus disulfidooxidans sp. nov., a New Acidophilic, Disulfide-Oxidizing, Gram-Positive, Spore-Forming Bacterium. International Journal of Systematic Bacteriology, 1996, 46, 1056-1064.	2.8	90
17	Rapid Detection of Shiga Toxin-Producing Bacteria in Feces by Multiplex PCR with Molecular Beacons on the Smart Cycler. Journal of Clinical Microbiology, 2002, 40, 1436-1440.	3.9	89
18	From cellular lysis to microarray detection, an integrated thermoplastic elastomer (TPE) point of care Lab on a Disc. Lab on A Chip, 2015, 15, 406-416.	6.0	69

#	Article	IF	Citations
19	Ruminococcus gauvreauii sp. nov., a glycopeptide-resistant species isolated from a human faecal specimen. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 1393-1397.	1.7	62
20	Detection of target DNA using fluorescent cationic polymer and peptide nucleic acid probes on solid support. BMC Biotechnology, 2005, 5, 10.	3.3	59
21	Rapid Concentration and Molecular Enrichment Approach for Sensitive Detection of Escherichia coli and Shigella Species in Potable Water Samples. Applied and Environmental Microbiology, 2011, 77, 6199-6207.	3.1	54
22	Evidence for Horizontal Gene Transfer in Evolution of Elongation Factor Tu in Enterococci. Journal of Bacteriology, 2000, 182, 6913-6920.	2.2	48
23	Structural and functional characterization of tnpI, a recombinase locus in Tn21 and related beta-lactamase transposons. Journal of Bacteriology, 1990, 172, 3745-3757.	2.2	47
24	Clostridium lavalense sp. nov., a glycopeptide-resistant species isolated from human faeces. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 498-503.	1.7	45
25	Partial recovery of microbiomes after antibiotic treatment. Gut Microbes, 2016, 7, 428-434.	9.8	43
26	Fast and Accurate Bacterial Species Identification in Urine Specimens Using LC-MS/MS Mass Spectrometry and Machine Learning*. Molecular and Cellular Proteomics, 2019, 18, 2492-2505.	3.8	42
27	Correlation between microarray DNA hybridization efficiency and the position of short capture probe on the target nucleic acid. BioTechniques, 2005, 39, 89-96.	1.8	41
28	Analytical limits of four Î²-glucuronidase and Î²-galactosidase-based commercial culture methods used to detect Escherichia coli and total coliforms. Journal of Microbiological Methods, 2008, 75, 506-514.	1.6	41
29	Enterococcus ureasiticus sp. nov. and Enterococcus quebecensis sp. nov., isolated from water. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1314-1320.	1.7	37
30	Isothermal Recombinase Polymerase Amplification Assay Applied to the Detection of Group B Streptococci in Vaginal/Anal Samples. Clinical Chemistry, 2014, 60, 660-666.	3.2	37
31	Internal Control for Nucleic Acid Testing Based on the Use of Purified Bacillus atrophaeus subsp. globigii Spores. Journal of Clinical Microbiology, 2009, 47, 751-757.	3.9	34
32	Identification of Thermophilic Bacterial Strains Producing Thermotolerant Hydrolytic Enzymes from Manure Compost. Indian Journal of Microbiology, 2012, 52, 41-47.	2.7	34
33	Function of the Greek key connection analysed using circular permutants of superoxide dismutase. EMBO Journal, 1997, 16, 2171-2178.	7.8	33
34	Specific Magnetic Beadâ€“Based Capture of Genomic DNA from Clinical Samples: Application to the Detection of Group B Streptococci in Vaginal/Anal Swabs. Clinical Chemistry, 2007, 53, 1570-1576.	3.2	33
35	Toward Automatic Label-Free Whispering Gallery Modes Biodetection with a Quantum Dot-Coated Microsphere Population. Nanoscale Research Letters, 2010, 5, 524-532.	5.7	33
36	Method for rapid and sensitive detection of Enterococcus sp. and Enterococcus faecalis/faecium cells in potable water samples. Water Research, 2011, 45, 2342-2354.	11.3	33

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37	Toward rapid real-time molecular diagnostic to guide smart use of antimicrobials. Current Opinion in Microbiology, 2002, 5, 478-482.	5.1	32
38	Development of natural and synthetic DNA probes for OXA-2 and TEM-1 beta-lactamases. Antimicrobial Agents and Chemotherapy, 1987, 31, 728-734.	3.2	27
39	Ecological distribution of Legionellaceae in the Quebec city area. Canadian Journal of Microbiology, 1984, 30, 63-67.	1.7	26
40	Rational Design and Expression of a Heparin-Targeted Human Superoxide Dismutase. Biochemical and Biophysical Research Communications, 1993, 190, 250-256.	2.1	25
41	Culture-enriched human gut microbiomes reveal core and accessory resistance genes. Microbiome, 2019, 7, 56.	11.1	23
42	Divergence among Genes Encoding the Elongation Factor Tu of Yersinia Species. Journal of Bacteriology, 2008, 190, 7548-7558.	2.2	22
43	Analytical limits of three Î²-glucosidase-based commercial culture methods used in environmental microbiology, to detect enterococci. Water Science and Technology, 2009, 60, 943-955.	2.5	20
44	Novel Genus-Specific PCR-Based Assays for Rapid Identification of Neisseria Species and Neisseria meningitidis. European Journal of Clinical Microbiology and Infectious Diseases, 2000, 19, 443-451.	2.9	19
45	Development of a real-time PCR assay for the specific detection and identification of Streptococcus pseudopneumoniae using the recA gene. Clinical Microbiology and Infection, 2012, 18, 1089-1096.	6.0	19
46	Rapid Exonuclease Digestion of PCR-Amplified Targets for Improved Microarray Hybridization. Clinical Chemistry, 2007, 53, 2020-2023.	3.2	17
47	Abilities of the mCP Agar Method and CRENAME Alpha Toxin-Specific Real-Time PCR Assay To Detect Clostridium perfringens Spores in Drinking Water. Applied and Environmental Microbiology, 2013, 79, 7654-7661.	3.1	16
48	A Sensitive and Accurate Recombinase Polymerase Amplification Assay for Detection of the Primary Bacterial Pathogens Causing Bovine Respiratory Disease. Frontiers in Veterinary Science, 2020, 7, 208.	2.2	16
49	Evolutionary relationships among salivarius streptococci as inferred from multilocus phylogenies based on 16S rRNA-encoding, recA, secA, and secY gene sequences. BMC Microbiology, 2009, 9, 232.	3.3	15
50	Impact of DNA Sequence and Oligonucleotide Length on a Polythiopheneâ€Based Fluorescent DNA Biosensor. Macromolecular Bioscience, 2013, 13, 717-722.	4.1	15
51	The development of a silica nanoparticle-based label-free DNA biosensor. Nanoscale, 2011, 3, 3747.	5.6	14
52	Rapid Filtration Separation-Based Sample Preparation Method for Bacillus Spores in Powdery and Environmental Matrices. Applied and Environmental Microbiology, 2012, 78, 1505-1512.	3.1	13
53	Method for isolation of both lactose-fermenting and â€“ non-fermenting Escherichia albertii strains from stool samples. Journal of Microbiological Methods, 2018, 154, 134-140.	1.6	11
54	Subcutaneous injection of Mycobacterium ulcerans causes necrosis, chronic inflammatory response and fibrosis in skeletal muscle. Microbes and Infection, 2008, 10, 1236-1243.	1.9	10

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55	Ability of three DNA-based assays to identify presumptive Escherichia coli colonies isolated from water by the culture-based mFC agar method. Water Research, 2011, 45, 2638-2646.	11.3	10
56	Costâ€effectiveness analysis of antiviral treatment in the management of seasonal influenza A: pointâ€ofâ€care rapid test versus clinical judgment. Influenza and Other Respiratory Viruses, 2016, 10, 113-121.	3.4	10
57	Onsite Microbiological Quality Monitoring of Raw Source Water in Cree Community of Mistissini. Water Quality Research Journal of Canada, 2009, 44, 345-354.	2.7	10
58	Extraction of nucleic acids from bacterial spores using beadâ€based mechanical lysis on a plastic chip. Engineering in Life Sciences, 2011, 11, 174-181.	3.6	9
59	Criibacterium bergeronii gen. nov., sp. nov., a new member of the family Peptostreptococcaceae, isolated from human clinical samples. International Journal of Systematic and Evolutionary Microbiology, 2019, 71, .	1.7	9
60	Comparative analysis of classical and molecular microbiology methods for the detection of Escherichia coli and Enterococcus spp. in well water. Journal of Environmental Monitoring, 2012, 14, 2983.	2.1	8
61	Portable bead-based fluorescence detection system for multiplex nucleic acid testing: a case study with Bacillus anthracis. Microfluidics and Nanofluidics, 2014, 16, 1075-1087.	2.2	8
62	Draft Genome Sequence of Romboutsia weinsteinii sp. nov. Strain CCRI-19649 ^T Isolated from Surface Water. Genome Announcements, 2017, 5, .	0.8	8
63	Cloning and characterization of the groE locus from Actinobacillus pleuropneumoniae. FEMS Microbiology Letters, 1997, 147, 11-16.	1.8	7
64	Differentiation Between Analyte Adsorption and Homogenous Index Sensing in WGM Biodetection. IEEE Sensors Journal, 2013, 13, 229-233.	4.7	6
65	Antigenic variability of the outer membrane antigens of Legionella pneumophila serogroups 1 to 8. Canadian Journal of Microbiology, 1987, 33, 607-613.	1.7	5
66	Development of gene probes and evolutionary relationships of the PSE-4 bla gene to plasmid-mediated Î²-lactamases of gram-negative bacteria. Molecular and Cellular Probes, 1989, 3, 179-188.	2.1	5
67	DNA-Sensors Using a Water-Soluble, Cationic Poly(thiophene) Derivative. ACS Symposium Series, 2004, , 359-367.	0.5	5
68	Structured oligonucleotides for target indexing to allow single-vessel PCR amplification and solid support microarray hybridization. Analyst, The, 2015, 140, 912-921.	3.5	5
69	CD4 deletion mutants evaluated for human immunodeficiency virus type 1 infectivity in a highly efficient system of expression and detection based on LTR-dependent reporter gene activation. Journal of Virological Methods, 1997, 65, 209-217.	2.1	4
70	Cloning and characterization of the groE locus from Actinobacillus pleuropneumoniae. FEMS Microbiology Letters, 2006, 147, 11-16.	1.8	4
71	Dielectric resonating microspheres for biosensing: An optical approach to a biological problem. American Journal of Physics, 2014, 82, 510-520.	0.7	4
72	Real-time monitoring of bead-based DNA hybridization in a microfluidic system: study of amplicon hybridization behavior on solid supports. Analyst, The, 2021, 146, 4226-4234.	3.5	4

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73	Rapid and automated sample preparation for nucleic acid extraction on a microfluidic CD (compact) Tj ETQq1 1 0.784314 rgBT /Overlo		3
74	Michel G Bergeron â€œMGBâ€•â€“ a True Success. Canadian Journal of Infectious Diseases and Medical Microbiology, 2015, 26, 287-288.	1.9	3
75	The requirements and challenges of a mobile laboratory for onsite water microbiology assessment. Water Practice and Technology, 2016, 11, 198-209.	2.0	3
76	Draft Genome Sequence of Romboutsia maritimum sp. nov. Strain CCRI-22766 ^T , Isolated from Coastal Estuarine Mud. Genome Announcements, 2017, 5, .	0.8	3
77	Empowerment of Women: Closing the Medical Technologies Gender Gap. Journal of Obstetrics and Gynaecology Canada, 2018, 40, 78-83.	0.7	3
78	Draft Genome Sequence of Criibacterium bergeronii gen. nov., sp. nov., Strain CCRI-22567 T , Isolated from a Vaginal Sample from a Woman with Bacterial Vaginosis. Genome Announcements, 2016, 4, .	0.8	2
79	Use of phylogenetical analysis to predict susceptibility of pathogenic Candida spp. to antifungal drugs. Journal of Microbiological Methods, 2016, 131, 51-60.	1.6	1
80	Saving vital time in the war on drug resistance. Nature, 2004, 430, 141-141.	27.8	0
81	Draft Genome Sequence of a Sporulating and Motile Strain of Lachnotalea glycerini Isolated from Water in QuÃ©bec City, Canada. Genome Announcements, 2017, 5, .	0.8	0
82	â€œResearcher for a Dayâ€: Creating and Shaping a New Generation of Scientific and Medical Researchers. Journal of Microbiology and Biology Education, 2019, 20, .	1.0	0