

Associa€Prof Joanne Macdonald

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,619
citations

361413

20
h-index

243625

44
g-index

53
all docs

53
docs citations

53
times ranked

3403
citing authors

#	ARTICLE	IF	CITATIONS
1	Review: a comprehensive summary of a decade development of the recombinase polymerase amplification. <i>Analyst, The</i> , 2019, 144, 31-67.	3.5	386
2	Inkjet printing for biosensor fabrication: combining chemistry and technology for advanced manufacturing. <i>Lab on A Chip</i> , 2015, 15, 2538-2558.	6.0	233
3	Advances in isothermal amplification: novel strategies inspired by biological processes. <i>Biosensors and Bioelectronics</i> , 2015, 64, 196-211.	10.1	217
4	Medium Scale Integration of Molecular Logic Gates in an Automaton. <i>Nano Letters</i> , 2006, 6, 2598-2603.	9.1	181
5	Deoxyribozyme-Based Three-Input Logic Gates and Construction of a Molecular Full Adder. <i>Biochemistry</i> , 2006, 45, 1194-1199.	2.5	180
6	Multiplexed lateral flow biosensors: Technological advances for radically improving point-of-care diagnoses. <i>Biosensors and Bioelectronics</i> , 2016, 83, 177-192.	10.1	165
7	Deoxyribozyme-Based Ligase Logic Gates and Their Initial Circuits. <i>Journal of the American Chemical Society</i> , 2005, 127, 6914-6915.	13.7	164
8	Recombinase polymerase amplification: Emergence as a critical molecular technology for rapid, low-resource diagnostics. <i>Expert Review of Molecular Diagnostics</i> , 2015, 15, 1475-1489.	3.1	136
9	NS1 Protein Secretion during the Acute Phase of West Nile Virus Infection. <i>Journal of Virology</i> , 2005, 79, 13924-13933.	3.4	101
10	Isolation of Japanese encephalitis virus from mosquitoes (Diptera: Culicidae) collected in the Western Province of Papua New Guinea, 1997-1998.. <i>American Journal of Tropical Medicine and Hygiene</i> , 2000, 62, 631-638.	1.4	93
11	Technical aspects of using human adenovirus as a viral water quality indicator. <i>Water Research</i> , 2016, 96, 308-326.	11.3	91
12	Thermostable Variants of Cocaine Esterase for Long-Time Protection against Cocaine Toxicity. <i>Molecular Pharmacology</i> , 2009, 75, 318-323.	2.3	81
13	Multiplex lateral flow detection and binary encoding enables a molecular colorimetric 7-segment display. <i>Lab on A Chip</i> , 2016, 16, 242-245.	6.0	59
14	Discovery of New Classes of Compounds that Reactivate Acetylcholinesterase Inhibited by Organophosphates. <i>ChemBioChem</i> , 2015, 16, 2205-2215.	2.6	46
15	Structural analysis of thermostabilizing mutations of cocaine esterase. <i>Protein Engineering, Design and Selection</i> , 2010, 23, 537-547.	2.1	45
16	Visual Displays that Directly Interface and Provide Readouts of Molecular States via Molecular Graphics Processing Units. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9222-9225.	13.8	40
17	Rapid assessment of viral water quality using a novel recombinase polymerase amplification test for human adenovirus. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8115-8125.	3.6	36
18	DNA Computers for Work and Play. <i>Scientific American</i> , 2008, 299, 84-91.	1.0	34

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19	Multiplex Detection of Nucleic Acids Using Recombinase Polymerase Amplification and a Molecular Colorimetric 7-Segment Display. <i>ACS Omega</i> , 2019, 4, 11388-11396.	3.5	33
20	Ebolavirus diagnosis made simple, comparable and faster than molecular detection methods: preparing for the future. <i>Virology Journal</i> , 2018, 15, 75.	3.4	25
21	Non-viable human embryos as a source of viable cells for embryonic stem cell derivation. <i>Reproductive BioMedicine Online</i> , 2009, 18, 301-308.	2.4	20
22	Molecular Phylogeny of Edge Hill Virus Supports its Position in the Yellow Fever Virus Group and Identifies a New Genetic Variant. <i>Evolutionary Bioinformatics</i> , 2010, 6, EBO.S4966.	1.2	20
23	Mechanical properties of silk of the Australian golden orb weavers <i>Nephila pilipes</i> and <i>N. plumipes</i> . <i>Biology Open</i> , 2018, 7, .	1.2	16
24	Synthetic Biology Provides a Toehold in the Fight against Zika. <i>Cell Host and Microbe</i> , 2016, 19, 752-754.	11.0	15
25	A DNA Logic Gate Automaton for Detection of Rabies and Other <i>Lyssaviruses</i> . <i>ChemPhysChem</i> , 2017, 18, 1735-1741.	2.1	15
26	Repeated Reuse of Deoxyribozyme-Based Logic Gates. <i>Nano Letters</i> , 2019, 19, 7655-7661.	9.1	15
27	New therapeutic approaches and novel alternatives for organophosphate toxicity. <i>Toxicology Letters</i> , 2018, 291, 1-10.	0.8	14
28	Evaluation of MinION nanopore sequencing for rapid enterovirus genotyping. <i>Virus Research</i> , 2018, 252, 8-12.	2.2	14
29	Major ampullate silk gland transcriptomes and fibre proteomes of the golden orb-weavers, <i>Nephila plumipes</i> and <i>Nephila pilipes</i> (Araneae: Nephilidae). <i>PLoS ONE</i> , 2018, 13, e0204243.	2.5	13
30	With great structure comes great functionality: Understanding and emulating spider silk. <i>Journal of Materials Research</i> , 2015, 30, 108-120.	2.6	12
31	Rapid detection of NDM and VIM carbapenemase encoding genes by recombinase polymerase amplification and lateral flow-based detection. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2021, 40, 2447-2453.	2.9	12
32	Solution-Phase Molecular-Scale Computation With Deoxyribozyme-Based Logic Gates and Fluorescent Readouts. , 2006, 335, 343-364.		10
33	The QuantiPhage assay: A novel method for the rapid colorimetric detection of coliphages using cellulose pad materials. <i>Water Research</i> , 2019, 149, 98-110.	11.3	10
34	Detection of a single nucleotide polymorphism for insecticide resistance using recombinase polymerase amplification and lateral flow dipstick detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132085.	7.8	7
35	Enhanced Detection Efficiency of Plastic Scintillators upon Incorporation of Zirconia Nanoparticles. <i>Sensors and Materials</i> , 2015, , 1.	0.5	6
36	DNA Heat Treatment for Improving qPCR Analysis of Human Adenovirus in Wastewater. <i>Food and Environmental Virology</i> , 2017, 9, 354-357.	3.4	5

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37	Development of Trainable Deoxyribozyme-Based Game Playing Automaton. <i>Methods in Molecular Biology</i> , 2012, 848, 419-437.	0.9	4
38	Sulfhydryl-specific PEGylation of phosphotriesterase cysteine mutants for organophosphate detoxification. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 501-506.	2.1	3
39	Complexing deoxyribozymes with RNA aptamers for detection of the small molecule theophylline. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113774.	10.1	3
40	ISO. , 2011, , .		2
41	Translational control of enzyme scavenger expression with toxin-induced micro RNA switches. <i>Scientific Reports</i> , 2021, 11, 2462.	3.3	2
42	<i>Nucleic Acids for Computation.</i> , 2009, , 355-375.		1
43	Advancing the Deoxyribozyme-Based Logic Gate Design Process. <i>Lecture Notes in Computer Science</i> , 2009, , 45-54.	1.3	1
44	Thermal stabilizing mutants of cocaine esterase. <i>FASEB Journal</i> , 2008, 22, .	0.5	0
45	<i>Molecular Automata.</i> , 2009, , 5631-5655.		0
46	<i>Molecular Automata.</i> , 2012, , 1894-1918.		0
47	<i>Molecular Automata.</i> , 2013, , 1-30.		0
48	<i>Molecular Automata.</i> , 2018, , 327-353.		0
49	<i>Lateral flow biosensors.</i> , 2016, , 253-275.		0