

Rachel A Mckendry

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

4,466
citations

249298

26
h-index

162838

57
g-index

70
all docs

70
docs citations

70
times ranked

7679
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-picomolar lateral flow antigen detection with two-wavelength imaging of composite nanoparticles. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114133.	5.3	7
2	Clinical Validation of a Rapid Variant-Proof RT-RPA Assay for the Detection of SARS-CoV-2. <i>Diagnostics</i> , 2022, 12, 1263.	1.3	13
3	Machine learning to support visual auditing of home-based lateral flow immunoassay self-test results for SARS-CoV-2 antibodies. <i>Communications Medicine</i> , 2022, 2, .	1.9	13
4	Tracking COVID-19 using online search. <i>Npj Digital Medicine</i> , 2021, 4, 17.	5.7	92
5	Automated phenotyping of mosquito larvae enables high-throughput screening for novel larvicides and offers potential for smartphone-based detection of larval insecticide resistance. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0008639.	1.3	12
6	Risk factors, symptom reporting, healthcare-seeking behaviour and adherence to public health guidance: protocol for Virus Watch, a prospective community cohort study. <i>BMJ Open</i> , 2021, 11, e048042.	0.8	46
7	Deep learning of HIV field-based rapid tests. <i>Nature Medicine</i> , 2021, 27, 1165-1170.	15.2	40
8	Genomic characteristics and clinical effect of the emergent SARS-CoV-2 B.1.1.7 lineage in London, UK: a whole-genome sequencing and hospital-based cohort study. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 1246-1256.	4.6	363
9	Harnessing recombinase polymerase amplification for rapid multi-gene detection of SARS-CoV-2 in resource-limited settings. <i>Biosensors and Bioelectronics</i> , 2021, 189, 113328.	5.3	44
10	Trends, patterns and psychological influences on COVID-19 vaccination intention: Findings from a large prospective community cohort study in England and Wales (Virus Watch). <i>Vaccine</i> , 2021, 39, 7108-7116.	1.7	15
11	A Rapid Drug Resistance Genotyping Workflow for <i>Mycobacterium tuberculosis</i> , Using Targeted Isothermal Amplification and Nanopore Sequencing. <i>Microbiology Spectrum</i> , 2021, 9, e0061021.	1.2	19
12	Spin-enhanced nanodiamond biosensing for ultrasensitive diagnostics. <i>Nature</i> , 2020, 587, 588-593.	13.7	184
13	Digital technologies in the public-health response to COVID-19. <i>Nature Medicine</i> , 2020, 26, 1183-1192.	15.2	695
14	Cantilever Sensors for Rapid Optical Antimicrobial Sensitivity Testing. <i>ACS Sensors</i> , 2020, 5, 3133-3139.	4.0	23
15	Towards a Future of Rapid, Low-Cost, Multiplexed Detection of Antimicrobial Resistance Markers for Tuberculosis and Other Pathogens. <i>Clinical Chemistry</i> , 2019, 65, 367-369.	1.5	2
16	Taking connected mobile-health diagnostics of infectious diseases to the field. <i>Nature</i> , 2019, 566, 467-474.	13.7	250
17	Exploring People's Candidacy for Mobile Health-Supported HIV Testing and Care Services in Rural KwaZulu-Natal, South Africa: Qualitative Study. <i>Journal of Medical Internet Research</i> , 2019, 21, e15681.	2.1	40
18	A Serological Point-of-Care Test for the Detection of IgG Antibodies against Ebola Virus in Human Survivors. <i>ACS Nano</i> , 2018, 12, 63-73.	7.3	163

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19	Platinum Nanocatalyst Amplification: Redefining the Gold Standard for Lateral Flow Immunoassays with Ultrabroad Dynamic Range. <i>ACS Nano</i> , 2018, 12, 279-288.	7.3	284
20	p24 revisited. <i>Aids</i> , 2018, 32, 2089-2102.	1.0	37
21	Modified cantilever arrays improve sensitivity and reproducibility of nanomechanical sensing in living cells. <i>Communications Biology</i> , 2018, 1, 175.	2.0	11
22	The Development and Validation of a Novel Nanobody-Based Competitive ELISA for the Detection of Foot and Mouth Disease 3ABC Antibodies in Cattle. <i>Frontiers in Veterinary Science</i> , 2018, 5, 250.	0.9	26
23	Quantifying Biomolecular Binding Constants using Video Paper Analytical Devices. <i>Chemistry - A European Journal</i> , 2018, 24, 9783-9787.	1.7	16
24	Google search patterns monitoring the daily health impact of heatwaves in England: How do the findings compare to established syndromic surveillance systems from 2013 to 2017?. <i>Environmental Research</i> , 2018, 166, 707-712.	3.7	10
25	Ultra-rapid, sensitive and specific digital diagnosis of HIV with a dual-channel SAW biosensor in a pilot clinical study. <i>Npj Digital Medicine</i> , 2018, 1, 35.	5.7	32
26	Self-Swabbing for Virological Confirmation of Influenza-Like Illness Among an Internet-Based Cohort in the UK During the 2014-2015 Flu Season: Pilot Study. <i>Journal of Medical Internet Research</i> , 2018, 20, e71.	2.1	17
27	Surface mediated cooperative interactions of drugs enhance mechanical forces for antibiotic action. <i>Scientific Reports</i> , 2017, 7, 41206.	1.6	8
28	Unravelling the Molecular Basis of High Affinity Nanobodies against HIV p24: <i>In Vitro</i> Functional, Structural, and <i>In Silico</i> Insights. <i>ACS Infectious Diseases</i> , 2017, 3, 479-491.	1.8	33
29	Towards an ultra-rapid smartphone- connected test for infectious diseases. <i>Scientific Reports</i> , 2017, 7, 11971.	1.6	42
30	Tuneable plasmonic gold dendrimer nanochains for sensitive disease detection. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7262-7266.	2.9	17
31	Who Owns the Data? Open Data for Healthcare. <i>Frontiers in Public Health</i> , 2016, 4, 7.	1.3	162
32	Optical diffraction for measurements of nano-mechanical bending. <i>Scientific Reports</i> , 2016, 6, 26690.	1.6	10
33	Determining biosensing modes in SH-SAW device using 3D finite element analysis. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 412-419.	4.0	15
34	Precise Biopatterning with Plasma: The Plasma Micro-contact Patterning (P μ CP) Technique. , 2016, , 3361-3373.		0
35	Decoupling competing surface binding kinetics and reconfiguration of receptor footprint for ultrasensitive stress assays. <i>Nature Nanotechnology</i> , 2015, 10, 899-907.	15.6	26
36	Automatic Identification of Web-Based Risk Markers for Health Events. <i>Journal of Medical Internet Research</i> , 2015, 17, e29.	2.1	24

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37	Precise Biopatterning with Plasma: The Plasma Micro-contact Patterning (P ^{1/4} CP) Technique. , 2015, , 1-14.		0
38	Surface-stress sensors for rapid and ultrasensitive detection of active free drugs in human serum. Nature Nanotechnology, 2014, 9, 225-232.	15.6	58
39	Plasma Microcontact Patterning (P ^{1/4} CP). Methods in Cell Biology, 2014, 119, 73-90.	0.5	6
40	Detecting Disease Outbreaks in Mass Gatherings Using Internet Data. Journal of Medical Internet Research, 2014, 16, e154.	2.1	59
41	Good vibrations for bad bacteria. Nature Nanotechnology, 2013, 8, 483-484.	15.6	4
42	Investigation of Sickleâ€Cell Haemoglobin Polymerisation under Electrochemical Control. ChemPhysChem, 2013, 14, 2143-2148.	1.0	4
43	Nanomechanics of Drug-target Interactions and Antibacterial Resistance Detection. Journal of Visualized Experiments, 2013, , e50719.	0.2	3
44	Nanomechanics of superbugs and superdrugs: new frontiers in nanomedicine. Biochemical Society Transactions, 2012, 40, 603-608.	1.6	10
45	Using Micromechanical Resonators to Measure Rheological Properties and Alcohol Content of Model Solutions and Commercial Beverages. Sensors, 2012, 12, 6497-6507.	2.1	13
46	Differential stress induced by thiol adsorption on faceted nanocrystals. Nature Materials, 2011, 10, 862-866.	13.3	65
47	A Polarised Population of Dynamic Microtubules Mediates Homeostatic Length Control in Animal Cells. PLoS Biology, 2010, 8, e1000542.	2.6	71
48	Chemically Programmed Nanomechanical Motion of Multiple Cantilever Arrays. Langmuir, 2010, 26, 4623-4626.	1.6	7
49	Physics of Nanomechanical Biosensing on Cantilever Arrays. Advanced Materials, 2008, 20, 3848-3853.	11.1	53
50	Nanomechanical detection of antibioticâ€mucopeptide binding in a model for superbug drug resistance. Nature Nanotechnology, 2008, 3, 691-696.	15.6	187
51	Electrochemical modulation of sickle cell haemoglobin polymerisation. Analyst, The, 2007, 132, 27-33.	1.7	2
52	Investigating the Molecular Mechanisms of In-Plane Mechanochemistry on Cantilever Arrays. Journal of the American Chemical Society, 2007, 129, 601-609.	6.6	102
53	Morphology and mechanical stability of amyloid-like peptide fibrils. Journal of Materials Science: Materials in Medicine, 2007, 18, 1325-1331.	1.7	38
54	Patterning Amyloid Peptide Fibrils by AFM Charge Writing. Langmuir, 2006, 22, 9089-9091.	1.6	23

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55	DNA Molecular Motor Driven Micromechanical Cantilever Arrays. <i>Journal of the American Chemical Society</i> , 2005, 127, 17054-17060.	6.6	206
56	Multiple label-free biodetection and quantitative DNA-binding assays on a nanomechanical cantilever array. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9783-9788.	3.3	582
57	Creating Nanoscale Patterns of Dendrimers on Silicon Surfaces with Dip-Pen Nanolithography. <i>Nano Letters</i> , 2002, 2, 713-716.	4.5	106
58	Chemical Force Microscopy with Active Enzymes. <i>Biophysical Journal</i> , 2001, 80, 2471-2476.	0.2	30
59	How Much Chemistry is There in Chemical Force Microscopy?. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 3901-3907.	0.8	18