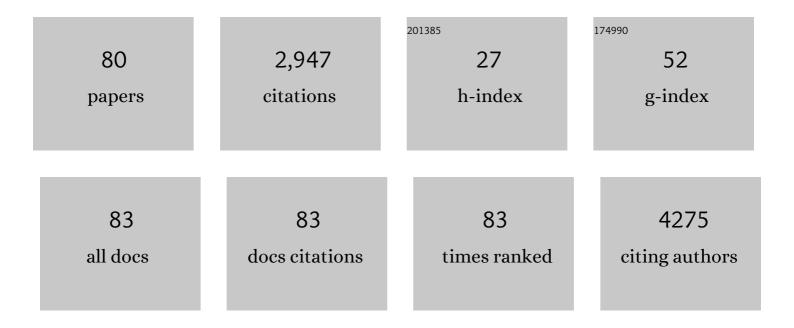
## Jonathan W Aylott

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Real-Time Ratiometric Method for the Determination of Molecular Oxygen Inside Living Cells Using Solâ^'Gel-Based Spherical Optical Nanosensors with Applications to Rat C6 Glioma. Analytical Chemistry, 2001, 73, 4124-4133.	3.2	324
2	Dual fluorescent labelling of cellulose nanocrystals for pH sensing. Chemical Communications, 2010, 46, 8929.	2.2	206
3	A fluorescent PEBBLE nanosensor for intracellular free zinc. Analyst, The, 2002, 127, 11-16.	1.7	147
4	Fluorescent nano-PEBBLE sensors designed for intracellular glucose imaging. Analyst, The, 2002, 127, 1471-1477.	1.7	133
5	Optical nanosensors—an enabling technology for intracellular measurements. Analyst, The, 2003, 128, 309-312.	1.7	132
6	Sol–gel encapsulation of metalloproteins for the development of optical biosensors for nitrogen monoxide and carbon monoxide. Analyst, The, 1995, 120, 2725-2730.	1.7	97
7	Mapping the Pharyngeal and Intestinal pH of <i>Caenorhabditis elegans</i> and Real-Time Luminal pH Oscillations Using Extended Dynamic Range pH-Sensitive Nanosensors. ACS Nano, 2013, 7, 5577-5587.	7.3	97
8	Thermoresponsive Polymer Colloids for Drug Delivery and Cancer Therapy. Macromolecular Bioscience, 2011, 11, 1722-1734.	2.1	90
9	Optical Biosensing of Nitrate Ions Using a Sol–Gel Immobilized Nitrate Reductase. Analyst, The, 1997, 122, 77-80.	1.7	89
10	New generation of bioreactors that advance extracellular matrix modelling and tissue engineering. Biotechnology Letters, 2019, 41, 1-25.	1.1	77
11	Using microfluidics for scalable manufacturing of nanomedicines from bench to GMP: A case study using protein-loaded liposomes. International Journal of Pharmaceutics, 2020, 582, 119266.	2.6	72
12	Immunocompetent 3D Model of Human Upper Airway for Disease Modeling and In Vitro Drug Evaluation. Molecular Pharmaceutics, 2014, 11, 2082-2091.	2.3	66
13	Enhanced uptake of nanoparticle drug carriers via a thermoresponsive shell enhances cytotoxicity in a cancer cell line. Biomaterials Science, 2013, 1, 434.	2.6	63
14	Real time Raman imaging to understand dissolution performance of amorphous solid dispersions. Journal of Controlled Release, 2014, 188, 53-60.	4.8	62
15	Protease sensing with nanoparticle based platforms. Analyst, The, 2011, 136, 29-41.	1.7	61
16	Dual-fluorophore ratiometric pH nanosensor with tuneable pKa and extended dynamic range. Analyst, The, 2011, 136, 1799.	1.7	58
17	Integrated organic light-emitting device/fluorescence-based chemical sensors. Applied Physics Letters, 2002, 81, 4652-4654.	1.5	57
18	Optical Biosensing of Gaseous Nitric Oxide Using Spin-Coated Solâ^'Gel Thin Films. Chemistry of Materials, 1997, 9, 2261-2263.	3.2	54

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19	Thermo-optical characterization of fluorescent rhodamine B based temperature-sensitive nanosensors using a CMOS MEMS micro-hotplate. Sensors and Actuators B: Chemical, 2014, 192, 126-133.	4.0	50
20	A novel electrospun biphasic scaffold provides optimal three-dimensional topography for <i>in vitro</i> co-culture of airway epithelial and fibroblast cells. Biofabrication, 2014, 6, 035014.	3.7	43
21	Protein identification by 3D OrbiSIMS to facilitate in situ imaging and depth profiling. Nature Communications, 2020, 11, 5832.	5.8	40
22	Optical calcium sensors: development of a generic method for their introduction to the cell using conjugated cell penetrating peptides. Analyst, The, 2005, 130, 163.	1.7	39
23	A facile method to clickable sensing polymeric nanoparticles. Chemical Communications, 2009, , 6601.	2.2	36
24	Indomethacin-Kollidon VA64 Extrudates: A Mechanistic Study of pH-Dependent Controlled Release. Molecular Pharmaceutics, 2016, 13, 1166-1175.	2.3	32
25	The delivery of PEBBLE nanosensors to measure the intracellular environment. Biochemical Society Transactions, 2007, 35, 538-543.	1.6	30
26	A non-invasive analysis method for on-chip spectrophotometric detection using liquid-core waveguiding within a 3D architecture. Analyst, The, 2003, 128, 1336.	1.7	29
27	Optical biosensing of nitric oxide using the metalloprotein cytochrome c′. Analyst, The, 1999, 124, 129-134.	1.7	28
28	Investigating NF-κB signaling in lung fibroblasts in 2D and 3D culture systems. Respiratory Research, 2015, 16, 144.	1.4	28
29	An optical sensor for reactive oxygen species: encapsulation of functionalised silica nanoparticles into silicate nanoprobes to reduce fluorophore leaching. Analyst, The, 2007, 133, 71-75.	1.7	27
30	Orthogonally bifunctionalised polyacrylamide nanoparticles: a support for the assembly of multifunctional nanodevices. Nanoscale, 2012, 4, 2034.	2.8	27
31	Rapid scale-up and production of active-loaded PEGylated liposomes. International Journal of Pharmaceutics, 2020, 586, 119566.	2.6	27
32	Monitoring the Dissolution Mechanisms of Amorphous Bicalutamide Solid Dispersions via Real-Time Raman Mapping. Molecular Pharmaceutics, 2015, 12, 1512-1522.	2.3	26
33	Real-time measurement of the intracellular pH of yeast cells during glucose metabolism using ratiometric fluorescent nanosensors. Nanoscale, 2017, 9, 5904-5911.	2.8	25
34	Using fluorescent pH-sensitive nanosensors to report their intracellular location after Tat-mediated delivery. Integrative Biology (United Kingdom), 2009, 1, 318.	0.6	24
35	Fluorescent nanosensors for intracellular measurements: synthesis, characterization, calibration, and measurement. Frontiers in Physiology, 2013, 4, 401.	1.3	23
36	Conjugatable water-soluble Pt(ii) and Pd(ii) porphyrin complexes: novel nano- and molecular probes for optical oxygen tension measurement in tissue engineering. Photochemical and Photobiological Sciences, 2014, 13, 1039-1051.	1.6	23

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37	Controlled intracellular generation of reactive oxygen species in human mesenchymal stem cells using porphyrin conjugated nanoparticles. Nanoscale, 2015, 7, 14525-14531.	2.8	23
38	Protease responsive nanoprobes with tethered fluorogenic peptidyl 3-arylcoumarin substrates. Chemical Communications, 2009, , 671-673.	2.2	22
39	Facile synthesis of responsive nanoparticles with reversible, tunable and rapid thermal transitions from biocompatible constituents. Chemical Communications, 2009, , 6068.	2.2	21
40	Advancements in the co-formulation of biologic therapeutics. Journal of Controlled Release, 2020, 327, 397-405.	4.8	21
41	Human airway smooth muscle maintain in situ cell orientation and phenotype when cultured on aligned electrospun scaffolds. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L38-L47.	1.3	20
42	Optically excited nanoscale ultrasonic transducers. Journal of the Acoustical Society of America, 2015, 137, 219-227.	0.5	20
43	Electrochemical communication with the inside of cells using micro-patterned vertical carbon nanofibre electrodes. Scientific Reports, 2016, 6, 37672.	1.6	19
44	Comparative transcriptomics of the nematode gut identifies global shifts in feeding mode and pathogen susceptibility. BMC Research Notes, 2016, 9, 142.	0.6	19
45	Tailoring the Electrochemical Properties of Carbon Nanotube Modified Indium Tin Oxide via <i>in Situ</i> Grafting of Aryl Diazonium. Langmuir, 2017, 33, 4924-4933.	1.6	19
46	Fluorescent nanosensors reveal dynamic pH gradients during biofilm formation. Npj Biofilms and Microbiomes, 2021, 7, 50.	2.9	19
47	Investigating the Dissolution Performance of Amorphous Solid Dispersions Using Magnetic Resonance Imaging and Proton NMR. Molecules, 2015, 20, 16404-16418.	1.7	17
48	Prediction of the enhanced insulin absorption across a triple co-cultured intestinal model using mucus penetrating PLGA nanoparticles. International Journal of Pharmaceutics, 2020, 585, 119516.	2.6	17
49	Porphyrin-nanosensor conjugates. New tools for the measurement of intracellular response to reactive oxygen species. Photochemical and Photobiological Sciences, 2010, 9, 801-811.	1.6	16
50	Switching of Macromolecular Ligand Display by Thermoresponsive Polymers Mediates Endocytosis of Multiconjugate Nanoparticles. Bioconjugate Chemistry, 2018, 29, 1030-1046.	1.8	16
51	Combining Inkjet Printing and Sol-Gel Chemistry for Making pH-Sensitive Surfaces. Current Topics in Medicinal Chemistry, 2015, 15, 271-278.	1.0	16
52	Development of a SERS strategy to overcome the nanoparticle stabilisation effect in serum-containing samples: Application to the quantification of dopamine in the culture medium of PC-12 cells. Talanta, 2018, 186, 8-16.	2.9	15
53	Adapting the Electrospinning Process to Provide Three Unique Environments for a Tri-layered <em>In Vitro</em> Model of the Airway Wall. Journal of Visualized Experiments, 2015, , e52986.	0.2	14
54	Enhanced distance-dependent fluorescence quenching using size tuneable core shell silica nanoparticles. RSC Advances, 2018, 8, 35840-35848.	1.7	13

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55	Immunity in Space: Prokaryote Adaptations and Immune Response in Microgravity. Life, 2021, 11, 112.	1.1	13
56	Design and fabrication of nanoscale ultrasonic transducers. Journal of Physics: Conference Series, 2012, 353, 012001.	0.3	12
57	Correlating Physicochemical Properties of Boronic Acid-Chitosan Conjugates to Clucose Adsorption Sensitivity. Pharmaceutics, 2013, 5, 69-80.	2.0	12
58	Electrospun gelatin-based scaffolds as a novel 3D platform to study the function of contractile smooth muscle cells <i>in vitro</i> . Biomedical Physics and Engineering Express, 2018, 4, 045039.	0.6	12
59	Confocal Raman Microscope Mapping of a Kofler Melt. Crystal Growth and Design, 2011, 11, 422-430.	1.4	11
60	An appraisal of the Suzuki cross-coupling reaction for the synthesis of novel fluorescent coumarin derivatives. Tetrahedron Letters, 2014, 55, 5521-5524.	0.7	11
61	Facile Dye-Initiated Polymerization of Lactide–Glycolide Generates Highly Fluorescent Poly(lactic- <i>co</i> -glycolic Acid) for Enhanced Characterization of Cellular Delivery. ACS Macro Letters, 2020, 9, 431-437.	2.3	11
62	Nano-in-Micro Self-Reporting Hydrogel Constructs. Journal of Biomedical Nanotechnology, 2015, 11, 1451-1460.	0.5	10
63	Modelling protein therapeutic co-formulation and co-delivery with PLGA nanoparticles continuously manufactured by microfluidics. Reaction Chemistry and Engineering, 2020, 5, 308-319.	1.9	10
64	Internalisation of polymeric nanosensors in mesenchymal stem cells: Analysis by flow cytometry and confocal microscopy. Journal of Controlled Release, 2008, 130, 115-120.	4.8	8
65	Quadruple labelled dual oxygen and pH-sensitive ratiometric nanosensors. Sensing and Bio-Sensing Research, 2016, 8, 36-42.	2.2	8
66	Pebble Nanosensors for Real Time Intracellular Chemical Imaging. , 2002, , 497-536.		6
67	The physicochemical fingerprint of Necator americanus. PLoS Neglected Tropical Diseases, 2017, 11, e0005971.	1.3	6
68	Intracellular processing of silica-coated superparamagnetic iron nanoparticles in human mesenchymal stem cells. RSC Advances, 2019, 9, 3176-3184.	1.7	6
69	Advanced polymeric nanotechnology to augment therapeutic delivery and disease diagnosis. Nanomedicine, 2020, 15, 2287-2309.	1.7	6
70	Molecular Formula Prediction for Chemical Filtering of 3D OrbiSIMS Datasets. Analytical Chemistry, 2022, 94, 4703-4711.	3.2	6
71	Electrospun PLGA fibre sheets incorporating fluorescent nanosensors: self-reporting scaffolds for application in tissue engineering. Analytical Methods, 2013, 5, 68-71.	1.3	5
72	Gold–Oligonucleotide Nanoconstructs Engineered to Detect Conserved Enteroviral Nucleic Acid Sequences. Biosensors, 2021, 11, 238.	2.3	5

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73	Effect of Excipients on Salt Disproportionation during Dissolution: A Novel Application of In Situ Raman Imaging. Molecular Pharmaceutics, 2021, 18, 3247-3259.	2.3	5
74	CHOTs optical transducers. Nondestructive Testing and Evaluation, 2011, 26, 353-366.	1.1	4
75	Tuning the conformation of synthetic co-polypeptides of serine and glutamic acid through control over polymer composition. Journal of Polymer Science Part A, 2016, 54, 2331-2336.	2.5	4
76	Self-reporting Scaffolds for 3-Dimensional Cell Culture. Journal of Visualized Experiments, 2013, , e50608.	0.2	3
77	<title>Development of oxygen and pH optical sensors using phase modulation technique</title> . , 1999, , .		2
78	Control of aggregation temperatures in mixed and blended cytocompatible thermoresponsive block co-polymer nanoparticles. Soft Matter, 2017, 13, 7441-7452.	1.2	2
79	Sound of nano. , 2013, , .		0
80	Facile approach to generating polymeric nanoarrays containing populations of nanoparticles. Micro and Nano Letters, 2015, 10, 378-383.	0.6	0