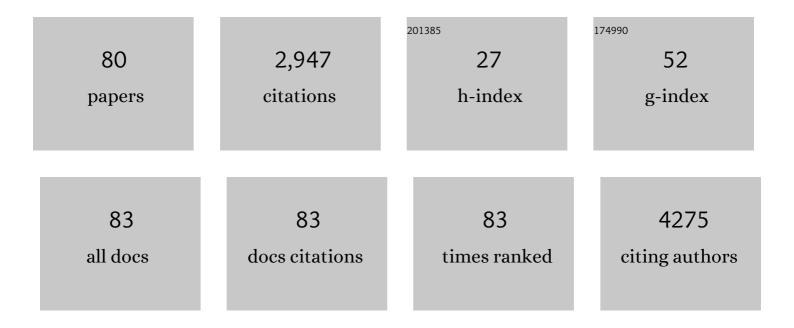
Jonathan W Aylott

List of Publications by Year in descending order

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ΙΟΝΑΤΗΛΝ ΜΑΥΙΟΤΤ

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Molecular Formula Prediction for Chemical Filtering of 3D OrbiSIMS Datasets. Analytical Chemistry, 2022, 94, 4703-4711. | 3.2 | 6 |
| 2 | Immunity in Space: Prokaryote Adaptations and Immune Response in Microgravity. Life, 2021, 11, 112. | 1.1 | 13 |
| 3 | Fluorescent nanosensors reveal dynamic pH gradients during biofilm formation. Npj Biofilms and Microbiomes, 2021, 7, 50. | 2.9 | 19 |
| 4 | Gold–Oligonucleotide Nanoconstructs Engineered to Detect Conserved Enteroviral Nucleic Acid Sequences. Biosensors, 2021, 11, 238. | 2.3 | 5 |
| 5 | 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 |
| 6 | 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 |
| 7 | Advancements in the co-formulation of biologic therapeutics. Journal of Controlled Release, 2020, 327, 397-405. | 4.8 | 21 |
| 8 | Protein identification by 3D OrbiSIMS to facilitate in situ imaging and depth profiling. Nature Communications, 2020, 11, 5832. | 5.8 | 40 |
| 9 | Advanced polymeric nanotechnology to augment therapeutic delivery and disease diagnosis. Nanomedicine, 2020, 15, 2287-2309. | 1.7 | 6 |
| 10 | 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 |
| 11 | 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 |
| 12 | Rapid scale-up and production of active-loaded PEGylated liposomes. International Journal of Pharmaceutics, 2020, 586, 119566. | 2.6 | 27 |
| 13 | Using microfluidics for scalable manufacturing of nanomedicines from bench to CMP: A case study using protein-loaded liposomes. International Journal of Pharmaceutics, 2020, 582, 119266. | 2.6 | 72 |
| 14 | Intracellular processing of silica-coated superparamagnetic iron nanoparticles in human mesenchymal stem cells. RSC Advances, 2019, 9, 3176-3184. | 1.7 | 6 |
| 15 | New generation of bioreactors that advance extracellular matrix modelling and tissue engineering. Biotechnology Letters, 2019, 41, 1-25. | 1.1 | 77 |
| 16 | Switching of Macromolecular Ligand Display by Thermoresponsive Polymers Mediates Endocytosis of Multiconjugate Nanoparticles. Bioconjugate Chemistry, 2018, 29, 1030-1046. | 1.8 | 16 |
| 17 | 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 |
| 18 | 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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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Control of aggregation temperatures in mixed and blended cytocompatible thermoresponsive block co-polymer nanoparticles. Soft Matter, 2017, 13, 7441-7452. | 1.2 | 2 |
| 23 | The physicochemical fingerprint of Necator americanus. PLoS Neglected Tropical Diseases, 2017, 11, e0005971. | 1.3 | 6 |
| 24 | Electrochemical communication with the inside of cells using micro-patterned vertical carbon nanofibre electrodes. Scientific Reports, 2016, 6, 37672. | 1.6 | 19 |
| 25 | Quadruple labelled dual oxygen and pH-sensitive ratiometric nanosensors. Sensing and Bio-Sensing Research, 2016, 8, 36-42. | 2.2 | 8 |
| 26 | 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 |
| 27 | Comparative transcriptomics of the nematode gut identifies global shifts in feeding mode and pathogen susceptibility. BMC Research Notes, 2016, 9, 142. | 0.6 | 19 |
| 28 | Indomethacin-Kollidon VA64 Extrudates: A Mechanistic Study of pH-Dependent Controlled Release. Molecular Pharmaceutics, 2016, 13, 1166-1175. | 2.3 | 32 |
| 29 | Nano-in-Micro Self-Reporting Hydrogel Constructs. Journal of Biomedical Nanotechnology, 2015, 11, 1451-1460. | 0.5 | 10 |
| 30 | Facile approach to generating polymeric nanoarrays containing populations of nanoparticles. Micro and Nano Letters, 2015, 10, 378-383. | 0.6 | 0 |
| 31 | Adapting the Electrospinning Process to Provide Three Unique Environments for a Tri-layered In Vitro Model of the Airway Wall. Journal of Visualized Experiments, 2015, , e52986. | 0.2 | 14 |
| 32 | Investigating the Dissolution Performance of Amorphous Solid Dispersions Using Magnetic Resonance Imaging and Proton NMR. Molecules, 2015, 20, 16404-16418. | 1.7 | 17 |
| 33 | Investigating NF-κB signaling in lung fibroblasts in 2D and 3D culture systems. Respiratory Research, 2015, 16, 144. | 1.4 | 28 |
| 34 | Optically excited nanoscale ultrasonic transducers. Journal of the Acoustical Society of America, 2015, 137, 219-227. | 0.5 | 20 |
| 35 | Controlled intracellular generation of reactive oxygen species in human mesenchymal stem cells using porphyrin conjugated nanoparticles. Nanoscale, 2015, 7, 14525-14531. | 2.8 | 23 |
| 36 | Monitoring the Dissolution Mechanisms of Amorphous Bicalutamide Solid Dispersions via Real-Time Raman Mapping. Molecular Pharmaceutics, 2015, 12, 1512-1522. | 2.3 | 26 |

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|----|---|-----|-----------|
| 37 | Combining Inkjet Printing and Sol-Gel Chemistry for Making pH-Sensitive Surfaces. Current Topics in Medicinal Chemistry, 2015, 15, 271-278. | 1.0 | 16 |
| 38 | 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 |
| 39 | Immunocompetent 3D Model of Human Upper Airway for Disease Modeling and In Vitro Drug Evaluation. Molecular Pharmaceutics, 2014, 11, 2082-2091. | 2.3 | 66 |
| 40 | 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 |
| 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 | 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 |
| 43 | 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 |
| 44 | Real time Raman imaging to understand dissolution performance of amorphous solid dispersions. Journal of Controlled Release, 2014, 188, 53-60. | 4.8 | 62 |
| 45 | 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 |
| 46 | Electrospun PLGA fibre sheets incorporating fluorescent nanosensors: self-reporting scaffolds for application in tissue engineering. Analytical Methods, 2013, 5, 68-71. | 1.3 | 5 |
| 47 | 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 |
| 48 | Sound of nano. , 2013, , . | | 0 |
| 49 | Self-reporting Scaffolds for 3-Dimensional Cell Culture. Journal of Visualized Experiments, 2013, , e50608. | 0.2 | 3 |
| 50 | Correlating Physicochemical Properties of Boronic Acid-Chitosan Conjugates to Glucose Adsorption Sensitivity. Pharmaceutics, 2013, 5, 69-80. | 2.0 | 12 |
| 51 | Fluorescent nanosensors for intracellular measurements: synthesis, characterization, calibration, and measurement. Frontiers in Physiology, 2013, 4, 401. | 1.3 | 23 |
| 52 | Design and fabrication of nanoscale ultrasonic transducers. Journal of Physics: Conference Series, 2012, 353, 012001. | 0.3 | 12 |
| 53 | Orthogonally bifunctionalised polyacrylamide nanoparticles: a support for the assembly of multifunctional nanodevices. Nanoscale, 2012, 4, 2034. | 2.8 | 27 |
| 54 | Protease sensing with nanoparticle based platforms. Analyst, The, 2011, 136, 29-41. | 1.7 | 61 |

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|----|--|-----|-----------|
| 55 | Confocal Raman Microscope Mapping of a Kofler Melt. Crystal Growth and Design, 2011, 11, 422-430. | 1.4 | 11 |
| 56 | CHOTs optical transducers. Nondestructive Testing and Evaluation, 2011, 26, 353-366. | 1.1 | 4 |
| 57 | Dual-fluorophore ratiometric pH nanosensor with tuneable pKa and extended dynamic range. Analyst, The, 2011, 136, 1799. | 1.7 | 58 |
| 58 | Thermoresponsive Polymer Colloids for Drug Delivery and Cancer Therapy. Macromolecular Bioscience, 2011, 11, 1722-1734. | 2.1 | 90 |
| 59 | Dual fluorescent labelling of cellulose nanocrystals for pH sensing. Chemical Communications, 2010, 46, 8929. | 2.2 | 206 |
| 60 | 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 |
| 61 | Using fluorescent pH-sensitive nanosensors to report their intracellular location after Tat-mediated delivery. Integrative Biology (United Kingdom), 2009, 1, 318. | 0.6 | 24 |
| 62 | A facile method to clickable sensing polymeric nanoparticles. Chemical Communications, 2009, , 6601. | 2.2 | 36 |
| 63 | Facile synthesis of responsive nanoparticles with reversible, tunable and rapid thermal transitions from biocompatible constituents. Chemical Communications, 2009, , 6068. | 2.2 | 21 |
| 64 | Protease responsive nanoprobes with tethered fluorogenic peptidyl 3-arylcoumarin substrates. Chemical Communications, 2009, , 671-673. | 2.2 | 22 |
| 65 | 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 |
| 66 | The delivery of PEBBLE nanosensors to measure the intracellular environment. Biochemical Society Transactions, 2007, 35, 538-543. | 1.6 | 30 |
| 67 | 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 |
| 68 | 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 |
| 69 | Optical nanosensors—an enabling technology for intracellular measurements. Analyst, The, 2003, 128, 309-312. | 1.7 | 132 |
| 70 | 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 |
| 71 | Integrated organic light-emitting device/fluorescence-based chemical sensors. Applied Physics Letters, 2002, 81, 4652-4654. | 1.5 | 57 |
| 72 | Fluorescent nano-PEBBLE sensors designed for intracellular glucose imaging. Analyst, The, 2002, 127, 1471-1477. | 1.7 | 133 |

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| 73 | A fluorescent PEBBLE nanosensor for intracellular free zinc. Analyst, The, 2002, 127, 11-16. | 1.7 | 147 |
| 74 | Pebble Nanosensors for Real Time Intracellular Chemical Imaging. , 2002, , 497-536. | | 6 |
| 75 | 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 |
| 76 | <title>Development of oxygen and pH optical sensors using phase modulation technique</title> . , 1999, , . | | 2 |
| 77 | Optical biosensing of nitric oxide using the metalloprotein cytochrome c′. Analyst, The, 1999, 124, 129-134. | 1.7 | 28 |
| 78 | Optical Biosensing of Gaseous Nitric Oxide Using Spin-Coated Solâ^'Gel Thin Films. Chemistry of Materials, 1997, 9, 2261-2263. | 3.2 | 54 |
| 79 | Optical Biosensing of Nitrate Ions Using a Sol–Gel Immobilized Nitrate Reductase. Analyst, The, 1997, 122, 77-80. | 1.7 | 89 |
| 80 | 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 |