

Jonathan W Aylott

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

2,369
citations

24
h-index

46
g-index

83
ext. papers

2,666
ext. citations

5.4
avg, IF

4.91
L-index

#	Paper	IF	Citations
80	Molecular Formula Prediction for Chemical Filtering of 3D OrbiSIMS Datasets.. <i>Analytical Chemistry</i> , 2022 ,	7.8	1
79	Fluorescent nanosensors reveal dynamic pH gradients during biofilm formation. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 50	8.2	5
78	Gold-Oligonucleotide Nanoconstructs Engineered to Detect Conserved Enteroviral Nucleic Acid Sequences. <i>Biosensors</i> , 2021 , 11,	5.9	2
77	Immunity in Space: Prokaryote Adaptations and Immune Response in Microgravity. <i>Life</i> , 2021 , 11,	3	3
76	Effect of Excipients on Salt Disproportionation during Dissolution: A Novel Application of In Situ Raman Imaging. <i>Molecular Pharmaceutics</i> , 2021 , 18, 3247-3259	5.6	1
75	Prediction of the enhanced insulin absorption across a triple co-cultured intestinal model using mucus penetrating PLGA nanoparticles. <i>International Journal of Pharmaceutics</i> , 2020 , 585, 119516	6.5	5
74	Facile Dye-Initiated Polymerization of LactideGlycolide Generates Highly Fluorescent Poly(lactic-co-glycolic Acid) for Enhanced Characterization of Cellular Delivery. <i>ACS Macro Letters</i> , 2020 , 9, 431-437	6.6	6
73	Rapid scale-up and production of active-loaded PEGylated liposomes. <i>International Journal of Pharmaceutics</i> , 2020 , 586, 119566	6.5	11
72	Using microfluidics for scalable manufacturing of nanomedicines from bench to GMP: A case study using protein-loaded liposomes. <i>International Journal of Pharmaceutics</i> , 2020 , 582, 119266	6.5	37
71	Modelling protein therapeutic co-formulation and co-delivery with PLGA nanoparticles continuously manufactured by microfluidics. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 308-319	4.9	8
70	Advancements in the co-formulation of biologic therapeutics. <i>Journal of Controlled Release</i> , 2020 , 327, 397-405	11.7	4
69	Protein identification by 3D OrbiSIMS to facilitate in situ imaging and depth profiling. <i>Nature Communications</i> , 2020 , 11, 5832	17.4	17
68	Advanced polymeric nanotechnology to augment therapeutic delivery and disease diagnosis. <i>Nanomedicine</i> , 2020 , 15, 2287-2309	5.6	2
67	Intracellular processing of silica-coated superparamagnetic iron nanoparticles in human mesenchymal stem cells. <i>RSC Advances</i> , 2019 , 9, 3176-3184	3.7	3
66	New generation of bioreactors that advance extracellular matrix modelling and tissue engineering. <i>Biotechnology Letters</i> , 2019 , 41, 1-25	3	50
65	Switching of Macromolecular Ligand Display by Thermoresponsive Polymers Mediates Endocytosis of Multiconjugate Nanoparticles. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1030-1046	6.3	13
64	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. <i>Talanta</i> , 2018 , 186, 8-16	6.2	11

63	Electrospun gelatin-based scaffolds as a novel 3D platform to study the function of contractile smooth muscle cells in vitro. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 045039	1.5	8
62	Enhanced distance-dependent fluorescence quenching using size tuneable core shell silica nanoparticles.. <i>RSC Advances</i> , 2018 , 8, 35840-35848	3.7	6
61	Real-time measurement of the intracellular pH of yeast cells during glucose metabolism using ratiometric fluorescent nanosensors. <i>Nanoscale</i> , 2017 , 9, 5904-5911	7.7	13
60	Tailoring the Electrochemical Properties of Carbon Nanotube Modified Indium Tin Oxide via in Situ Grafting of Aryl Diazonium. <i>Langmuir</i> , 2017 , 33, 4924-4933	4	12
59	The physicochemical fingerprint of <i>Necator americanus</i> . <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005971	4.5	5
58	Control of aggregation temperatures in mixed and blended cytocompatible thermoresponsive block co-polymer nanoparticles. <i>Soft Matter</i> , 2017 , 13, 7441-7452	3.6	1
57	Tuning the conformation of synthetic co-polypeptides of serine and glutamic acid through control over polymer composition. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2331-2336	2.5	0
56	Comparative transcriptomics of the nematode gut identifies global shifts in feeding mode and pathogen susceptibility. <i>BMC Research Notes</i> , 2016 , 9, 142	2.3	16
55	Indomethacin-Kollidon VA64 Extrudates: A Mechanistic Study of pH-Dependent Controlled Release. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1166-75	5.6	20
54	Electrochemical communication with the inside of cells using micro-patterned vertical carbon nanofibre electrodes. <i>Scientific Reports</i> , 2016 , 6, 37672	4.9	13
53	Quadruple labelled dual oxygen and pH-sensitive ratiometric nanosensors. <i>Sensing and Bio-Sensing Research</i> , 2016 , 8, 36-42	3.3	7
52	Optically excited nanoscale ultrasonic transducers. <i>Journal of the Acoustical Society of America</i> , 2015 , 137, 219-27	2.2	17
51	Controlled intracellular generation of reactive oxygen species in human mesenchymal stem cells using porphyrin conjugated nanoparticles. <i>Nanoscale</i> , 2015 , 7, 14525-31	7.7	21
50	Monitoring the Dissolution Mechanisms of Amorphous Bicalutamide Solid Dispersions via Real-Time Raman Mapping. <i>Molecular Pharmaceutics</i> , 2015 , 12, 1512-22	5.6	21
49	Nano-in-Micro Self-Reporting Hydrogel Constructs. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 1451-60	4.6	8
48	Facile approach to generating polymeric nanoarrays containing populations of nanoparticles. <i>Micro and Nano Letters</i> , 2015 , 10, 378-383	0.9	
47	Adapting the Electrospinning Process to Provide Three Unique Environments for a Tri-layered In Vitro Model of the Airway Wall. <i>Journal of Visualized Experiments</i> , 2015 , e52986	1.6	10
46	Investigating the Dissolution Performance of Amorphous Solid Dispersions Using Magnetic Resonance Imaging and Proton NMR. <i>Molecules</i> , 2015 , 20, 16404-18	4.8	14

45	Investigating NF- κ B signaling in lung fibroblasts in 2D and 3D culture systems. <i>Respiratory Research</i> , 2015 , 16, 144	7.3	20
44	Combining inkjet printing and sol-gel chemistry for making pH-sensitive surfaces. <i>Current Topics in Medicinal Chemistry</i> , 2015 , 15, 271-8	3	14
43	Immunocompetent 3D model of human upper airway for disease modeling and in vitro drug evaluation. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2082-91	5.6	53
42	Conjugatable water-soluble Pt(II) and Pd(II) porphyrin complexes: novel nano- and molecular probes for optical oxygen tension measurement in tissue engineering. <i>Photochemical and Photobiological Sciences</i> , 2014 , 13, 1039-51	4.2	19
41	Human airway smooth muscle maintain in situ cell orientation and phenotype when cultured on aligned electrospun scaffolds. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 307, L38-47	5.8	15
40	A novel electrospun biphasic scaffold provides optimal three-dimensional topography for in vitro co-culture of airway epithelial and fibroblast cells. <i>Biofabrication</i> , 2014 , 6, 035014	10.5	26
39	Thermo-optical characterization of fluorescent rhodamine B based temperature-sensitive nanosensors using a CMOS MEMS micro-hotplate. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 126-133	8.5	42
38	Real time Raman imaging to understand dissolution performance of amorphous solid dispersions. <i>Journal of Controlled Release</i> , 2014 , 188, 53-60	11.7	50
37	An appraisal of the Suzuki cross-coupling reaction for the synthesis of novel fluorescent coumarin derivatives. <i>Tetrahedron Letters</i> , 2014 , 55, 5521-5524	2	11
36	Enhanced uptake of nanoparticle drug carriers via a thermoresponsive shell enhances cytotoxicity in a cancer cell line. <i>Biomaterials Science</i> , 2013 , 1, 434-442	7.4	55
35	Electrospun PLGA fibre sheets incorporating fluorescent nanosensors: self-reporting scaffolds for application in tissue engineering. <i>Analytical Methods</i> , 2013 , 5, 68-71	3.2	4
34	Fluorescent nanosensors for intracellular measurements: synthesis, characterization, calibration, and measurement. <i>Frontiers in Physiology</i> , 2013 , 4, 401	4.6	16
33	Mapping the pharyngeal and intestinal pH of <i>Caenorhabditis elegans</i> and real-time luminal pH oscillations using extended dynamic range pH-sensitive nanosensors. <i>ACS Nano</i> , 2013 , 7, 5577-87	16.7	70
32	Self-reporting scaffolds for 3-dimensional cell culture. <i>Journal of Visualized Experiments</i> , 2013 , e50608	1.6	2
31	Orthogonally bifunctionalised polyacrylamide nanoparticles: a support for the assembly of multifunctional nanodevices. <i>Nanoscale</i> , 2012 , 4, 2034-45	7.7	24
30	Correlating physicochemical properties of boronic Acid-chitosan conjugates to glucose adsorption sensitivity. <i>Pharmaceutics</i> , 2012 , 5, 69-80	6.4	10
29	Design and fabrication of nanoscale ultrasonic transducers. <i>Journal of Physics: Conference Series</i> , 2012 , 353, 012001	0.3	10
28	CHOTs optical transducers. <i>Nondestructive Testing and Evaluation</i> , 2011 , 26, 353-366	2	4

27	Dual-fluorophore ratiometric pH nanosensor with tuneable pKa and extended dynamic range. <i>Analyst, The</i> , 2011 , 136, 1799-801	5	52
26	Thermoresponsive polymer colloids for drug delivery and cancer therapy. <i>Macromolecular Bioscience</i> , 2011 , 11, 1722-34	5.5	79
25	Protease sensing with nanoparticle based platforms. <i>Analyst, The</i> , 2011 , 136, 29-41	5	58
24	Confocal Raman Microscope Mapping of a Kofler Melt. <i>Crystal Growth and Design</i> , 2011 , 11, 422-430	3.5	8
23	Dual fluorescent labelling of cellulose nanocrystals for pH sensing. <i>Chemical Communications</i> , 2010 , 46, 8929-31	5.8	185
22	Porphyrin-nanosensor conjugates. New tools for the measurement of intracellular response to reactive oxygen species. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 801-11	4.2	16
21	Delivery of Nanosensors to Measure the Intracellular Environment 2010 , 15-33		
20	Using fluorescent pH-sensitive nanosensors to report their intracellular location after Tat-mediated delivery. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 318-23	3.7	22
19	A facile method to clickable sensing polymeric nanoparticles. <i>Chemical Communications</i> , 2009 , 6601-3	5.8	33
18	Facile synthesis of responsive nanoparticles with reversible, tunable and rapid thermal transitions from biocompatible constituents. <i>Chemical Communications</i> , 2009 , 6068-70	5.8	20
17	Protease responsive nanoprobe with tethered fluorogenic peptidyl 3-aryl coumarin substrates. <i>Chemical Communications</i> , 2009 , 671-3	5.8	20
16	Internalisation of polymeric nanosensors in mesenchymal stem cells: analysis by flow cytometry and confocal microscopy. <i>Journal of Controlled Release</i> , 2008 , 130, 115-20	11.7	8
15	An optical sensor for reactive oxygen species: encapsulation of functionalised silica nanoparticles into silicate nanoprobe to reduce fluorophore leaching. <i>Analyst, The</i> , 2008 , 133, 71-5	5	24
14	The delivery of PEBBLE nanosensors to measure the intracellular environment. <i>Biochemical Society Transactions</i> , 2007 , 35, 538-43	5.1	24
13	Optical calcium sensors: development of a generic method for their introduction to the cell using conjugated cell penetrating peptides. <i>Analyst, The</i> , 2005 , 130, 163-70	5	37
12	Optical nanosensors--an enabling technology for intracellular measurements. <i>Analyst, The</i> , 2003 , 128, 309-12	5	110
11	A non-invasive analysis method for on-chip spectrophotometric detection using liquid-core waveguiding within a 3D architecture. <i>Analyst, The</i> , 2003 , 128, 1336-40	5	23
10	Pebble Nanosensors for Real Time Intracellular Chemical Imaging 2002 , 497-536		4

9	Integrated organic light-emitting device/fluorescence-based chemical sensors. <i>Applied Physics Letters</i> , 2002 , 81, 4652-4654	3-4	47
8	Fluorescent nano-PEBBLE sensors designed for intracellular glucose imaging. <i>Analyst, The</i> , 2002 , 127, 1471-7	5	121
7	A fluorescent PEBBLE nanosensor for intracellular free zinc. <i>Analyst, The</i> , 2002 , 127, 11-6	5	128
6	A real-time ratiometric method for the determination of molecular oxygen inside living cells using sol-gel-based spherical optical nanosensors with applications to rat C6 glioma. <i>Analytical Chemistry</i> , 2001 , 73, 4124-33	7.8	294
5	Development of oxygen and pH optical sensors using phase modulation technique 1999 ,		1
4	Optical biosensing of nitric oxide using the metalloprotein cytochrome cU <i>Analyst, The</i> , 1999 , 124, 129-34		27
3	Optical Biosensing of Gaseous Nitric Oxide Using Spin-Coated Sol-Gel Thin Films. <i>Chemistry of Materials</i> , 1997 , 9, 2261-2263	9.6	49
2	Optical Biosensing of Nitrate Ions Using a Sol-Gel Immobilized Nitrate Reductase. <i>Analyst, The</i> , 1997 , 122, 77-80	5	79
1	Sol-gel encapsulation of metalloproteins for the development of optical biosensors for nitrogen monoxide and carbon monoxide. <i>Analyst, The</i> , 1995 , 120, 2725-2730	5	84