## David J Scurr

List of Publications by Year in descending order

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Πλυίο Ι Scupp

#	Article	IF	CITATIONS
1	Molecular Formula Prediction for Chemical Filtering of 3D OrbiSIMS Datasets. Analytical Chemistry, 2022, 94, 4703-4711.	3.2	6
2	Efficacy of antimicrobial and anti-viral coated air filters to prevent the spread of airborne pathogens. Scientific Reports, 2022, 12, 2803.	1.6	16
3	Elucidating the molecular landscape of the stratum corneum. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114380119.	3.3	20
4	Detection of Label-Free Drugs within Brain Tissue Using Orbitrap Secondary Ion Mass Spectrometry as a Complement to Neuro-Oncological Drug Delivery. Pharmaceutics, 2022, 14, 571.	2.0	3
5	Distribution of a highly lipophilic drug cannabidiol into different lymph nodes following oral administration in lipidic vehicle. European Journal of Pharmaceutics and Biopharmaceutics, 2022, 174, 29-34.	2.0	10
6	A Multifaceted Ferrocene Interlayer for Highly Stable and Efficient Lithium Doped Spiroâ€OMeTADâ€based Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	32
7	Microneedle-Mediated Permeation Enhancement of Chlorhexidine Digluconate: Mechanistic Insights Through Imaging Mass Spectrometry. Pharmaceutical Research, 2022, 39, 1945-1958.	1.7	2
8	Single-Cell Metabolic Profiling of Macrophages Using 3D OrbiSIMS: Correlations with Phenotype. Analytical Chemistry, 2022, 94, 9389-9398.	3.2	12
9	Dendrimer-mediated permeation enhancement of chlorhexidine digluconate: Determination of in vitro skin permeability and visualisation of dermal distribution. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 159, 77-87.	2.0	11
10	The use of nanovibration to discover specific and potent bioactive metabolites that stimulate osteogenic differentiation in mesenchymal stem cells. Science Advances, 2021, 7, .	4.7	22
11	Direct Immobilization of Engineered Nanobodies on Gold Sensors. ACS Applied Materials & Interfaces, 2021, 13, 17353-17360.	4.0	20
12	Sequential Orbitrap Secondary Ion Mass Spectrometry and Liquid Extraction Surface Analysis-Tandem Mass Spectrometry-Based Metabolomics for Prediction of Brain Tumor Relapse from Sample-Limited Primary Tissue Archives. Analytical Chemistry, 2021, 93, 6947-6954.	3.2	13
13	Residual polymer stabiliser causes anisotropic electrical conductivity during inkjet printing of metal nanoparticles. Communications Materials, 2021, 2, .	2.9	14
14	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
15	Assessing Lymphatic Uptake of Lipids Using Magnetic Resonance Imaging: A Feasibility Study in Healthy Human Volunteers with Potential Application for Tracking Lymph Node Delivery of Drugs and Formulation Excipients. Pharmaceutics, 2021, 13, 1343.	2.0	0
16	Imaging mass spectrometry of fingermarks on brass bullet casings using sample rotation. Analyst, The, 2021, 146, 7563-7572.	1.7	5
17	Intradermal and transdermal drug delivery using microneedles – Fabrication, performance evaluation and application to lymphatic delivery. Advanced Drug Delivery Reviews, 2020, 153, 195-215.	6.6	102
18	Intradermal delivery of imiquimod using polymeric microneedles for basal cell carcinoma. International Journal of Pharmaceutics, 2020, 589, 119808.	2.6	29

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19	Protein identification by 3D OrbiSIMS to facilitate in situ imaging and depth profiling. Nature Communications, 2020, 11, 5832.	5.8	40
20	Immune Modulation by Design: Using Topography to Control Human Monocyte Attachment and Macrophage Differentiation. Advanced Science, 2020, 7, 1903392.	5.6	93
21	Cryo-OrbiSIMS for 3D Molecular Imaging of a Bacterial Biofilm in Its Native State. Analytical Chemistry, 2020, 92, 9008-9015.	3.2	37
22	Intradermal Delivery of an Immunomodulator for Basal Cell Carcinoma; Expanding the Mechanistic Insight into Solid Microneedle-Enhanced Delivery of Hydrophobic Molecules. Molecular Pharmaceutics, 2020, 17, 2925-2937.	2.3	25
23	Mechanisms of lipid preservation in archaeological clay ceramics revealed by mass spectrometry imaging. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14688-14693.	3.3	15
24	Recent Advances in the Analysis of GDI and Diesel Fuel Injector Deposits. Fuel, 2020, 272, 117682.	3.4	15
25	Characterisation of mechanical insertion of commercial microneedles. Journal of Drug Delivery Science and Technology, 2020, 58, 101766.	1.4	9
26	Spatially Resolved Molecular Compositions of Insoluble Multilayer Deposits Responsible for Increased Pollution from Internal Combustion Engines. ACS Applied Materials & Interfaces, 2020, 12, 51026-51035.	4.0	9
27	The chemical and ultra-structural analysis of thin plastic films used for surgical attenuation of portosystemic shunts in dogs and cats. Research in Veterinary Science, 2019, 126, 192-198.	0.9	5
28	The effect of the dispersion of microfibrillated cellulose on the mechanical properties of melt-compounded polypropylene–polyethylene copolymer. Cellulose, 2019, 26, 9645-9659.	2.4	22
29	Expanding the applications of microneedles in dermatology. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 140, 121-140.	2.0	69
30	Enhanced vitamin C skin permeation from supramolecular hydrogels, illustrated using in situ ToF-SIMS 3D chemical profiling. International Journal of Pharmaceutics, 2019, 563, 21-29.	2.6	31
31	Directly bonding antimicrobial peptide mimics to steel and the real world applications of these materials. Materials Science and Engineering C, 2019, 102, 299-304.	3.8	10
32	Reversible, High-Affinity Surface Capturing of Proteins Directed by Supramolecular Assembly. ACS Applied Materials & Interfaces, 2019, 11, 8937-8944.	4.0	11
33	Insight into imiquimod skin permeation and increased delivery using microneedle pre-treatment. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 139, 33-43.	2.0	34
34	Protein Encapsulation of Experimental Anticancer Agents 5F 203 and Phortress: Towards Precision Drug Delivery. International Journal of Nanomedicine, 2019, Volume 14, 9525-9534.	3.3	7
35	Surface modification of PdlLGA microspheres with gelatine methacrylate: Evaluation of adsorption, entrapment, and oxygen plasma treatment approaches. Acta Biomaterialia, 2017, 53, 450-459.	4.1	20
36	Controlling the Release of Indomethacin from Glass Solutions Layered with a Rate Controlling Membrane Using Fluid-Bed Processing. Part 1: Surface and Cross-Sectional Chemical Analysis. Molecular Pharmaceutics, 2017, 14, 959-973.	2.3	16

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37	Quantification and Qualitative Effects of Different PEGylations on Poly(butyl cyanoacrylate) Nanoparticles. Molecular Pharmaceutics, 2017, 14, 2560-2569.	2.3	20
38	Rapid Nanogram Scale Screening Method of Microarrays to Evaluate Drug–Polymer Blends Using High-Throughput Printing Technology. Molecular Pharmaceutics, 2017, 14, 2079-2087.	2.3	12
39	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
40	Sample rotation improves gas cluster sputter depth profiling of polymers. Surface and Interface Analysis, 2017, 49, 953-959.	0.8	11
41	On the suitability of high vacuum electrospray deposition for the fabrication of molecular electronic devices. Chemical Physics Letters, 2017, 682, 15-19.	1.2	7
42	Dendrimer pre-treatment enhances the skin permeation of chlorhexidine digluconate: Characterisation by in vitro percutaneous absorption studies and Time-of-Flight Secondary Ion Mass Spectrometry. European Journal of Pharmaceutical Sciences, 2017, 104, 90-101.	1.9	18
43	A dual-application poly ( <scp>dl</scp> -lactic-co-glycolic) acid (PLGA)-chitosan composite scaffold for potential use in bone tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 1966-1983.	1.9	23
44	The physicochemical fingerprint of Necator americanus. PLoS Neglected Tropical Diseases, 2017, 11, e0005971.	1.3	6
45	Controlling the Physical Dimensions of Peptide Nanotubes by Supramolecular Polymer Coassembly. ACS Nano, 2016, 10, 7436-7442.	7.3	91
46	3D chemical characterization of frozen hydrated hydrogels using ToF-SIMS with argon cluster sputter depth profiling. Biointerphases, 2016, 11, 02A301.	0.6	11
47	ToF-SIMS analysis of a polymer microarray composed of poly(meth)acrylates with C <sub>6</sub> derivative pendant groups. Surface and Interface Analysis, 2016, 48, 226-236.	0.8	18
48	Age-Related Changes to Human Stratum Corneum Lipids Detected Using Time-of-Flight Secondary Ion Mass Spectrometry Following in Vivo Sampling. Analytical Chemistry, 2016, 88, 4400-4408.	3.2	30
49	A Material Conferring Hemocompatibility. Scientific Reports, 2016, 6, 26848.	1.6	11
50	Imaging of Crystalline and Amorphous Surface Regions Using Time-of-Flight Secondary-Ion Mass Spectrometry (ToF-SIMS): Application to Pharmaceutical Materials. Analytical Chemistry, 2016, 88, 3481-3487.	3.2	15
51	Multivariate analysis of 3D ToF-SIMS images: method validation and application to cultured neuronal networks. Analyst, The, 2016, 141, 90-95.	1.7	25
52	The Influence of Spray-Drying Parameters on Phase Behavior, Drug Distribution, and In Vitro Release of Injectable Microspheres for Sustained Release. Journal of Pharmaceutical Sciences, 2015, 104, 1451-1460.	1.6	27
53	3D ToF-SIMS Imaging of Polymer Multilayer Films Using Argon Cluster Sputter Depth Profiling. ACS Applied Materials & Interfaces, 2015, 7, 2654-2659.	4.0	54
54	Biomaterial modification of urinary catheters with antimicrobials to give long-term broadspectrum antibiofilm activity. Journal of Controlled Release, 2015, 202, 57-64.	4.8	130

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55	Influence of formulation composition and process on the characteristics and in vitro release from PLGA-based sustained release injectables. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 90, 22-29.	2.0	10
56	Multivariate ToF-SIMS image analysis of polymer microarrays and protein adsorption. Biointerphases, 2015, 10, 019005.	0.6	27
57	Combination of (M)DSC and Surface Analysis to Study the Phase Behaviour and Drug Distribution of Ternary Solid Dispersions. Pharmaceutical Research, 2015, 32, 1407-1416.	1.7	11
58	Physicomechanical properties of sintered scaffolds formed from porous and protein-loaded poly(DL-lactic-co-glycolic acid) microspheres for potential use in bone tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2015, 26, 796-811.	1.9	9
59	Measuring Compositions in Organic Depth Profiling: Results from a VAMAS Interlaboratory Study. Journal of Physical Chemistry B, 2015, 119, 10784-10797.	1.2	56
60	In vivo evaluation of different formulation strategies for sustained release injectables of a poorly soluble HIV protease inhibitor. Journal of Controlled Release, 2015, 199, 1-9.	4.8	5
61	Properties of An Oral Nanoformulation of A Molecularly Dispersed Amphotericin B Comprising A Composite Matrix of Theobroma Oil and Bee'S Wax. Nanomaterials, 2014, 4, 905-916.	1.9	7
62	Information on the Aromatic Structure of Internal Diesel Injector Deposits From Time of Flight Secondary Ion Mass Spectrometry (ToF-SIMS). , 2014, , .		14
63	Fumed Silica Nanoparticle Mediated Biomimicry for Optimal Cell– <scp>M</scp> aterial Interactions for Artificial Organ Development. Macromolecular Bioscience, 2014, 14, 307-313.	2.1	8
64	All-natural composite wound dressing films of essential oils encapsulated in sodium alginate with antimicrobial properties. International Journal of Pharmaceutics, 2014, 463, 137-145.	2.6	241
65	Injectable and porous PLGA microspheres that form highly porous scaffolds at body temperature. Acta Biomaterialia, 2014, 10, 5090-5098.	4.1	94
66	Thermally Switchable Polymers Achieve Controlled <i>Escherichia coli</i> Detachment. Advanced Healthcare Materials, 2014, 3, 1020-1025.	3.9	7
67	High throughput screening for biomaterials discovery. Journal of Controlled Release, 2014, 190, 115-126.	4.8	38
68	High throughput discovery of thermoâ€responsive materials using water contact angle measurements and timeâ€ofâ€flight secondary ion mass spectrometry. Surface and Interface Analysis, 2013, 45, 181-184.	0.8	19
69	Strategies for MCR image analysis of large hyperspectral dataâ€sets. Surface and Interface Analysis, 2013, 45, 466-470.	0.8	15
70	ToFâ€SIMS imaging of a polymer microarray prepared using inkâ€ <del>j</del> et printing of acrylate monomers. Surface and Interface Analysis, 2013, 45, 202-205.	0.8	17
71	Distribution and Visualisation of Chlorhexidine Within the Skin Using ToF-SIMS: A Potential Platform for the Design of More Efficacious Skin Antiseptic Formulations. Pharmaceutical Research, 2013, 30, 1896-1905.	1.7	32
72	Ambient DESI and LESA-MS Analysis of Proteins Adsorbed to a Biomaterial Surface Using In-Situ Surface Tryptic Digestion. Journal of the American Society for Mass Spectrometry, 2013, 24, 1927-1936.	1.2	40

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73	Analysis and prediction of defects in UV photo-initiated polymer microarrays. Journal of Materials Chemistry B, 2013, 1, 1035-1043.	2.9	18
74	Surface Characteristics of Spray-Dried Microspheres Consisting of PLGA and PVP: Relating the Influence of Heat and Humidity to the Thermal Characteristics of These Polymers. Molecular Pharmaceutics, 2013, 10, 3213-3224.	2.3	28
75	Polymer Microarrays for High Throughput Discovery of Biomaterials. Journal of Visualized Experiments, 2012, , e3636.	0.2	21
76	Phosphatase responsive peptide surfaces. Journal of Materials Chemistry, 2012, 22, 12229.	6.7	21
77	Use of imaging multivariate analysis to improve biochemical and anatomical discrimination in desorption electrospray ionisation mass spectrometry imaging. Analyst, The, 2012, 137, 3946.	1.7	18
78	Development and Validation of a Fluorescence Method to Follow the Build-up of Short Peptide Sequences on Solid 2D Surfaces. ACS Applied Materials & amp; Interfaces, 2012, 4, 53-58.	4.0	16
79	Chemical and spatial analysis of protein loaded PLGA microspheres for drug delivery applications. Journal of Controlled Release, 2012, 162, 321-329.	4.8	56
80	Fullâ€Thickness Characterization of Plasma Polymerized Hexane Films Irradiated by an Electron Beam. Plasma Processes and Polymers, 2012, 9, 22-27.	1.6	7
81	Nanoscale Surface Characterization and Miscibility Study of a Spray-Dried Injectable Polymeric Matrix Consisting of Poly(lactic-co-glycolic acid) and Polyvinylpyrrolidone. Journal of Pharmaceutical Sciences, 2012, 101, 3473-3485.	1.6	20
82	Rapid micropatterning of cell lines and human pluripotent stem cells on elastomeric membranes. Biotechnology and Bioengineering, 2012, 109, 2630-2641.	1.7	19
83	ToF-SIMS analysis of chemical heterogenities in inkjet micro-array printed drug/polymer formulations. Journal of Materials Science: Materials in Medicine, 2012, 23, 385-391.	1.7	44
84	Dimerization of Tri(4-bromophenyl)benzene by Arylâ^'Aryl Coupling from Solution on a Gold Surface. Journal of the American Chemical Society, 2011, 133, 4220-4223.	6.6	63
85	High loading efficiency and sustained release of siRNA encapsulated in PLGA nanoparticles: Quality by design optimization and characterization. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 26-35.	2.0	191
86	Fracture of Ensis siliqua mollusk shell reveals multiple delaminations as a potential defence and toughening mechanism. Journal of Materials Science, 2011, 46, 4719-4722.	1.7	1
87	The Evolution of Pdâ^•Sn Catalytic Surfaces in Electroless Copper Deposition. Journal of the Electrochemical Society, 2011, 158, D172.	1.3	38
88	Characterisation of amino acid modified cellulose surfaces using ToF-SIMS and XPS. Cellulose, 2010, 17, 747-756.	2.4	35
89	Structural and optical properties of dilute InAsN grown by molecular beam epitaxy. Journal of Applied Physics, 2010, 108, .	1.1	20
90	Surface Characterization of Carbohydrate Microarrays. Langmuir, 2010, 26, 17143-17155.	1.6	39

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91	Investigation of the mechanism of plasma electrolytic oxidation of aluminium using 180 tracer. Corrosion Science, 2010, 52, 1070-1076.	3.0	68
92	Influence of the Plasma Sheath on Plasma Polymer Deposition in Advance of a Mask and down Pores. Journal of Physical Chemistry B, 2009, 113, 8487-8494.	1.2	36
93	Enzyme-Activated RGD Ligands on Functionalized Poly(ethylene glycol) Monolayers: Surface Analysis and Cellular Response. Langmuir, 2009, 25, 7533-7539.	1.6	59
94	Controlling cell morphology on amino acid-modified cellulose. Soft Matter, 2008, 4, 1059.	1.2	31
95	Controlling Interfacial Interpenetration of Polymer Waveguide Deposited on Plasma Treated Flexible Substrate. , 2008, , .		1
96	The characterisation of residual strain in Ensis siliqua shells. Journal of Bionic Engineering, 2006, 3, 33-38.	2.7	4
97	Analysis of local deformation in indented Ensis Siliqua mollusk shells using Raman spectroscopy. Journal of Materials Research, 2006, 21, 3099-3108.	1.2	10
98	The role of residual stress in the fracture properties of a natural ceramic. Journal of Materials Chemistry, 2005, 15, 947.	6.7	18
99	Structure/Property Relationships of Seashells. Materials Research Society Symposia Proceedings, 2004, 844, 1.	0.1	0
100	A Novel Technique for Investigating the Characteristics and History of Deposits Formed Within High Pressure Fuel Injection Equipment. SAE International Journal of Fuels and Lubricants, 0, 5, 1155-1164.	0.2	18
101	Spectroscopic Studies of Internal Injector Deposits (IDID) Resulting from the Use of Non-Commercial Low Molecular Weight Polyisobutylenesuccinimide (PIBSI). SAE International Journal of Fuels and Lubricants, 0, 7, 762-770.	0.2	19
102	The Application of New Approaches to the Analysis of Deposits from the Jet Fuel Thermal Oxidation Tester (JFTOT). SAE International Journal of Fuels and Lubricants, 0, 10, .	0.2	8
103	The Effect of Temperature on the Molecular Compositions of External and Internal Gasoline Direct Injection Deposits. , 0, , .		1
104	A new particle mounting method for surface analysis. Surface and Interface Analysis, 0, , .	0.8	2
105	Investigations of Diesel Injector Deposits Characterization and Testing. , 0, , .		3
106	Quantifiable correlation of ToFâ€SIMS and XPS data from polymer surfaces with controlled amino acid and peptide content. Surface and Interface Analysis, 0, , .	0.8	1
107	Developing Novel Biointerfaces: Using Chlorhexidine Surface Attachment as a Method for Creating Antiâ€Fungal Surfaces. Global Challenges, 0, , 2100138	1.8	2