

# Suwan N Jayasinghe

## 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.

127  
papers

4,065  
citations

36  
h-index

57  
g-index

142  
ext. papers

4,294  
ext. citations

5.4  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
127	Unspooling the history of cell electrospinning. <i>Matter</i> , <b>2022</b> , 5, 4-7	12.7	1
126	Characterisation of electrospun PS/PU polymer blend fibre mat for oil sorption. <i>Polymer</i> , <b>2021</b> , 212, 123129	12.9	2
125	Reimagining Flow Cytometric Cell Sorting. <i>Advanced Biology</i> , <b>2020</b> , 4, e2000019	3.5	2
124	Anti-PD-1 immunotherapy leads to tuberculosis reactivation via dysregulation of TNF- $\alpha$ . <i>ELife</i> , <b>2020</b> , 9,	8.9	39
123	Bio-electrosprayed human neural stem cells are viable and maintain their differentiation potential. <i>F1000Research</i> , <b>2020</b> , 9, 267	3.6	2
122	Bio-electrosprayed human neural stem cells are viable and maintain their differentiation potential. <i>F1000Research</i> , <b>2020</b> , 9, 267	3.6	2
121	General Computational Methodology for Modeling Electrohydrodynamic Flows: Prediction and Optimization Capability for the Generation of Bubbles and Fibers. <i>Langmuir</i> , <b>2019</b> , 35, 10203-10212	4	11
120	Encapsulation of macrophages enhances their retention and angiogenic potential. <i>Npj Regenerative Medicine</i> , <b>2019</b> , 4, 6	15.8	9
119	Bio-electrosprayed human sperm remain viable. <i>Materials Today</i> , <b>2019</b> , 31, 21-30	21.8	3
118	Targeting Cx26 Expression by Sustained Release of Cx26 Antisense from Scaffolds Reduces Inflammation and Improves Wound Healing. <i>Advanced Biology</i> , <b>2018</b> , 2, 1800227	3.5	3
117	Thoughts on Scaffolds. <i>Advanced Biology</i> , <b>2017</b> , 1, e1700067	3.5	12
116	Dissection of the host-pathogen interaction in human tuberculosis using a bioengineered 3-dimensional model. <i>ELife</i> , <b>2017</b> , 6,	8.9	41
115	Sustained Release of Cx43 Antisense Oligodeoxynucleotides from Coated Collagen Scaffolds Promotes Wound Healing. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1786-99	10.1	23
114	Platform Technologies for Directly Reconstructing 3D Living Biomaterials. <i>Advanced Materials</i> , <b>2015</b> , 27, 7794-9	24	18
113	The Extracellular Matrix Regulates Granuloma Necrosis in Tuberculosis. <i>Journal of Infectious Diseases</i> , <b>2015</b> , 212, 463-73	7	74
112	Controlled Generation of Microspheres Incorporating Extracellular Matrix Fibrils for Three-Dimensional Cell Culture. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2648-2657	15.6	74
111	Cell electrospinning cardiac patches for tissue engineering the heart. <i>Analyst, The</i> , <b>2014</b> , 139, 4449-52	5	43

110	Cardiac tissue engineering: renewing the arsenal for the battle against heart disease. <i>Integrative Biology (United Kingdom)</i> , <b>2014</b> , 6, 111-26	3.7	30
109	Cell electrospinning: an in vitro and in vivo study. <i>Small</i> , <b>2014</b> , 10, 78-82	11	68
108	Cell electrospinning: a novel tool for functionalising fibres, scaffolds and membranes with living cells and other advanced materials for regenerative biology and medicine. <i>Analyst, The</i> , <b>2013</b> , 138, 2215-23	5.23	159
107	Integration of scaffolds into full-thickness skin wounds: the connexin response. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 1151-60	10.1	23
106	Encapsulation of angiogenic monocytes using bio-spraying technology. <i>Integrative Biology (United Kingdom)</i> , <b>2012</b> , 4, 628-32	3.7	10
105	Aerodynamically assisted bio-jetting of hematopoietic stem cells. <i>Analyst, The</i> , <b>2012</b> , 137, 1329-33	5	9
104	In vitro and in vivo interrogation of bio-sprayed cells. <i>Small</i> , <b>2012</b> , 8, 2495-500	11	19
103	Bio-electrospraying and cell electrospinning: progress and opportunities for basic biology and clinical sciences. <i>Advanced Healthcare Materials</i> , <b>2012</b> , 1, 27-34	10.1	34
102	Regenerative Medicine: Bio-electrospraying and Cell Electrospinning: Progress and Opportunities for Basic Biology and Clinical Sciences (Adv. Healthcare Mater. 1/2012). <i>Advanced Healthcare Materials</i> , <b>2012</b> , 1, 26-26	10.1	3
101	Bio-electrospraying primary cardiac cells: in vitro tissue creation and functional study. <i>Biotechnology Journal</i> , <b>2011</b> , 6, 86-95	5.6	22
100	Biojets in regenerative biology & medicine. <i>Materials Today</i> , <b>2011</b> , 14, 202-211	21.8	11
99	Bio-electrosprayed living composite matrix implanted into mouse models. <i>Macromolecular Bioscience</i> , <b>2011</b> , 11, 1364-9	5.5	30
98	Biosprayed spleen cells integrate and function in mouse models. <i>Analyst, The</i> , <b>2011</b> , 136, 3434-7	5	6
97	Bio-electrosprays: from bio-analytics to a generic tool for the health sciences. <i>Analyst, The</i> , <b>2011</b> , 136, 878-90	5	45
96	Preface to Special Topic: Biological microfluidics in tissue engineering and regenerative medicine. <i>Biomicrofluidics</i> , <b>2011</b> , 5, 13301	3.2	3
95	Biosprays: from the biomedical to the clinical sciences. <i>Cell Cycle</i> , <b>2011</b> , 10, 4184-6	4.7	3
94	Bio-electrospraying and aerodynamically assisted bio-jetting the model eukaryotic Dictyostelium discoideum: assessing stress and developmental competency post treatment. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 1185-91	4.1	17
93	Bio-electrospraying the nematode <i>Caenorhabditis elegans</i> : studying whole-genome transcriptional responses and key life cycle parameters. <i>Journal of the Royal Society Interface</i> , <b>2010</b> , 7, 595-601	4.1	24

92	Bio-electrospraying and droplet-based microfluidics: control of cell numbers within living residues. <i>Biomedical Materials (Bristol)</i> , <b>2010</b> , 5, 21001	3.5	41
91	Bio-electrospraying and aerodynamically assisted bio-jetting whole human blood: Interrogating cell surface marker integrity. <i>Biomicrofluidics</i> , <b>2010</b> , 4, 11101	3.2	13
90	Pressure driven spinning: A multifaceted approach for preparing nanoscaled functionalized fibers, scaffolds, and membranes with advanced materials. <i>Biomicrofluidics</i> , <b>2010</b> , 4, 14106	3.2	15
89	Molecular characterisation of post-bio-electrosprayed human brain astrocytoma cells. <i>Analyst, The</i> , <b>2010</b> , 135, 2600-12	5	18
88	The differentiation and engraftment potential of mouse hematopoietic stem cells is maintained after bio-electrospray. <i>Analyst, The</i> , <b>2010</b> , 135, 157-64	5	37
87	Combining bio-electrospraying with gene therapy: a novel biotechnique for the delivery of genetic material via living cells. <i>Analyst, The</i> , <b>2010</b> , 135, 1042-9	5	40
86	The role of surface wettability and surface charge of electrospayed nanoapatites on the behaviour of osteoblasts. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 750-5	10.8	75
85	Development and fertility studies on post-bio-electrosprayed <i>Drosophila melanogaster</i> embryos. <i>Biomicrofluidics</i> , <b>2009</b> , 3, 44107	3.2	20
84	Bio-electrosprays and Aerodynamically Assisted Bio-jets, Flow Cytometry Concepts for Interrogating Living Cells and Whole Organisms. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1239, 1		
83	Bio-electrospraying whole human blood: analysing cellular viability at a molecular level. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2009</b> , 3, 562-6	4.4	23
82	Aerodynamically assisted jetting and threading for processing concentrated suspensions containing advanced structural, functional and biological materials. <i>Biotechnology Journal</i> , <b>2009</b> , 4, 64-72	5.6	13
81	Bio-electrospraying living <i>Xenopus tropicalis</i> embryos: investigating the structural, functional and biological integrity of a model organism. <i>Analyst, The</i> , <b>2009</b> , 134, 743-7	5	21
80	Bio-electrospraying embryonic stem cells: interrogating cellular viability and pluripotency. <i>Integrative Biology (United Kingdom)</i> , <b>2009</b> , 1, 260-6	3.7	45
79	Direct jetting approaches for handling stem cells. <i>Biomedical Materials (Bristol)</i> , <b>2009</b> , 4, 015018	3.5	22
78	A versatile pressure assisted jet-fabrication by coating approach for forming biocompatible constructs for tissue engineering. <i>Materials Letters</i> , <b>2008</b> , 62, 2574-2577	3.3	4
77	A hybrid bio-jetting approach for directly engineering living cells. <i>Biomedical Materials (Bristol)</i> , <b>2008</b> , 3, 025008	3.5	14
76	Genetic, genomic and physiological state studies on single-needle bio-electrosprayed human cells. <i>Analyst, The</i> , <b>2008</b> , 133, 1347-51	5	18
75	Bio-protocols for directly forming active encapsulations containing living primary cells. <i>Soft Matter</i> , <b>2008</b> , 4, 1219-1229	3.6	31

74	Living scaffolds (specialized and unspecialized) for regenerative and therapeutic medicine. <i>Biomacromolecules</i> , <b>2008</b> , 9, 759-66	6.9	31
73	Bio-electrosprayed multicellular zebrafish embryos are viable and develop normally. <i>Biomedical Materials (Bristol)</i> , <b>2008</b> , 3, 011001	3.5	34
72	Advanced jet protocols for directly engineering living cells: a genesis to alternative biohandling approaches for the life sciences. <i>Regenerative Medicine</i> , <b>2008</b> , 3, 49-61	2.5	13
71	Cell engineering: spearheading the next generation in healthcare. <i>Biomedical Materials (Bristol)</i> , <b>2008</b> , 3, 034004	3.5	6
70	Pilot study to investigate the possibility of cytogenetic and physiological changes in bio-electrosprayed human lymphocyte cells. <i>Regenerative Medicine</i> , <b>2008</b> , 3, 343-9	2.5	19
69	Do Surface Defects and Modification Determine the Observed Toxicity of Carbon Nanotubes?. <i>Journal of Biomedical Nanotechnology</i> , <b>2008</b> , 4, 515-523	4	4
68	Genomic, genetic and physiological effects of bio-electrospraying on live cells of the model yeast <i>Saccharomyces cerevisiae</i> . <i>Biomedical Materials (Bristol)</i> , <b>2008</b> , 3, 034125	3.5	13
67	The role of electrosprayed apatite nanocrystals in guiding osteoblast behaviour. <i>Biomaterials</i> , <b>2008</b> , 29, 1833-43	15.6	64
66	Deposition of nano-hydroxyapatite particles utilising direct and transitional electrohydrodynamic processes. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 3093-104	4.5	31
65	Influence of nanohydroxyapatite patterns deposited by electrohydrodynamic spraying on osteoblast response. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 85, 188-94	5.4	32
64	A novel direct aerodynamically assisted threading methodology for generating biologically viable microthreads encapsulating living primary cells. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 107, 1215-1225	2.9	40
63	Aerodynamically Assisted Jets: A Paradigm for Directly Microbubbling and Microfoaming Combinations of Advanced Materials. <i>Advanced Materials</i> , <b>2008</b> , 20, 4419-4422	24	6
62	Electrospray self-assembly: An emerging jet-based route for directly forming nanoscaled structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 2911-2915	3	5
61	Electrospinning nanosuspensions loaded with passivated Au nanoparticles. <i>Tetrahedron</i> , <b>2008</b> , 64, 8476-8483	4.83	11
60	A unique physical-chemistry approach for fabricating cell friendly surfaces. <i>Biotechnology Journal</i> , <b>2008</b> , 3, 124-8	5.6	3
59	Gene expression studies on bio-electrosprayed primary cardiac myocytes. <i>Biotechnology Journal</i> , <b>2008</b> , 3, 530-5	5.6	15
58	Aerodynamically assisted jet processing of viscous single- and multi-phase media. <i>Soft Matter</i> , <b>2007</b> , 3, 605-612	3.6	19
57	Unique aerodynamically driven methodology for forming droplets, threads to scaffolds. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 3844-3848	2.9	13

56	Nanofabrication by Electrohydrodynamic Jetting of a Tailor-Made Living Siloxane Sol. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 2032-2038	2.6	12
55	Pressure-Assisted Spinning: A Versatile and Economical, Direct Fibre to Scaffold Spinning Methodology. <i>Macromolecular Rapid Communications</i> , <b>2007</b> , 28, 1491-1496	4.8	13
54	Direct cell engineering reaches the jet age. <i>Materials Today</i> , <b>2007</b> , 10, 60	21.8	1
53	Versatile methodology for generating size-controlled composite micrometer beads capsulating nanomaterials. <i>Micro and Nano Letters</i> , <b>2007</b> , 2, 30	0.9	10
52	Aerodynamically assisted jetting: a rapidly emerging microfabrication methodology. <i>Micro and Nano Letters</i> , <b>2007</b> , 2, 78	0.9	3
51	Bio-electrosprays: a novel electrified jetting methodology for the safe handling and deployment of primary living organisms. <i>Biotechnology Journal</i> , <b>2007</b> , 2, 622-30	5.6	31
50	Bio-electrosprays: the development of a promising tool for regenerative and therapeutic medicine. <i>Biotechnology Journal</i> , <b>2007</b> , 2, 934-7	5.6	17
49	Coaxial Aerodynamically Assisted Bio-jets: A Versatile Paradigm for Directly Engineering Living Primary Organisms. <i>Engineering in Life Sciences</i> , <b>2007</b> , 7, 599-610	3.4	18
48	Coaxial electrohydrodynamic direct writing of nano-suspensions. <i>Journal of Nanoparticle Research</i> , <b>2007</b> , 9, 825-831	2.3	15
47	Direct writing of lead zirconate titanate piezoelectric structures by electrohydrodynamic atomisation. <i>Journal of Electroceramics</i> , <b>2007</b> , 19, 287-293	1.5	13
46	PRESSURE-ASSISTED SPINNING: A UNIQUE AND VERSATILE APPROACH FOR DIRECTLY FABRICATING MEMBRANES WITH MICRO- AND NANOFIBERS. <i>Nano</i> , <b>2007</b> , 02, 213-219	1.1	10
45	Development of a direct three-dimensional biomicrofabrication concept based on electro spraying a custom made siloxane sol. <i>Biomicrofluidics</i> , <b>2007</b> , 1, 34103	3.2	22
44	Submerged electrospays: a versatile approach for microencapsulation. <i>Journal of Microencapsulation</i> , <b>2007</b> , 24, 430-44	3.4	11
43	Pressure-assisted cell spinning: a direct protocol for spinning biologically viable cell-bearing fibres and scaffolds. <i>Biomedical Materials (Bristol)</i> , <b>2007</b> , 2, 211-9	3.5	21
42	A novel direct fibre generation technique for preparing functionalized and compound scaffolds and membranes for applications within the life sciences. <i>Biomedical Materials (Bristol)</i> , <b>2007</b> , 2, 189-95	3.5	20
41	Aerodynamically assisted bio-jets: the development of a novel and direct non-electric field-driven methodology for engineering living organisms. <i>Biomedical Materials (Bristol)</i> , <b>2007</b> , 2, 158-68	3.5	38
40	Cell electrospinning highly concentrated cellular suspensions containing primary living organisms into cell-bearing threads and scaffolds. <i>Nanomedicine</i> , <b>2007</b> , 2, 555-67	5.6	114
39	A Novel Technique for Forming Self-Assembled Nanotube Structures. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2006</b> , 14, 67-81	1.8	23

38	Stable electric-field driven cone-jetting of concentrated biosuspensions. <i>Lab on A Chip</i> , <b>2006</b> , 6, 1086-90	7.2	88
37	Electrohydrodynamic jetting of mouse neuronal cells. <i>Biochemical Journal</i> , <b>2006</b> , 394, 375-8	3.8	58
36	Electrohydrodynamic Print-Patterning of Nano-Hydroxyapatite. <i>Journal of Biomedical Nanotechnology</i> , <b>2006</b> , 2, 201-207	4	29
35	Flow behaviour of dielectric liquids in an electric field. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 558, 103	3.7	18
34	Electrohydrodynamic atomization: an approach to growing continuous self-supporting polymeric fibers. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 2522-8	3.4	30
33	Cell electrospinning: a unique biotechnique for encapsulating living organisms for generating active biological microthreads/scaffolds. <i>Biomacromolecules</i> , <b>2006</b> , 7, 3364-9	6.9	398
32	Electrohydrodynamic jet processing: an advanced electric-field-driven jetting phenomenon for processing living cells. <i>Small</i> , <b>2006</b> , 2, 216-9	11	222
31	Coaxial Electrohydrodynamic Atomization of Ceramic Suspensions. <i>International Journal of Applied Ceramic Technology</i> , <b>2006</b> , 3, 55-60	2	11
30	Solid Freeform Fabrication of Thin-Walled Ceramic Structures Using an Electrohydrodynamic Jet. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 1727-1729	3.8	23
29	Aspirin particle formation by electric-field-assisted release of droplets. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 3091-3097	4.4	17
28	Electrically forced microthreading of highly viscous dielectric liquids. <i>Journal of Electrostatics</i> , <b>2006</b> , 64, 355-360	1.7	12
27	An advanced jet-based approach to processing nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 31, 17-26	3	14
26	Self-assembled nanostructures via electrospaying. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 33, 398-406	3	45
25	Electric field driven jetting: an emerging approach for processing living cells. <i>Biotechnology Journal</i> , <b>2006</b> , 1, 86-94	5.6	70
24	Bio-electrosprays: the next generation of electrified jets. <i>Biotechnology Journal</i> , <b>2006</b> , 1, 1018-22	5.6	38
23	Electrospraying: an in-situ polymerisation route for fabricating high macroporous scaffolds. <i>Journal of Sol-Gel Science and Technology</i> , <b>2006</b> , 38, 293-302	2.3	16
22	Jet break-up in nano-suspensions during electrohydrodynamic atomization in the stable cone-jet mode. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 923-6	1.3	16
21	Electrostatic atomization of a ceramic suspension at pico-flow rates. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 399-404	2.6	25

20	Novel forming of single and multiple ceramic micro-channels. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 701-702	2.6	8
19	Preparation of lead zirconate titanate nano-powder by electrohydrodynamic atomization. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 723-725	2.6	15
18	Electrohydrodynamic atomization of protein (bovine serum albumin). <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 919-25	4.5	44
17	Novel deposition of nano-sized silicon substituted hydroxyapatite by electrostatic spraying. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 1137-42	4.5	55
16	High resolution print-patterning of a nano-suspension. <i>Journal of Nanoparticle Research</i> , <b>2005</b> , 7, 301-306.	3.3	38
15	Instrument for electrohydrodynamic print-patterning three-dimensional complex structures. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 075105	1.7	48
14	Electric-field driven jetting from dielectric liquids. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4243-4245	3.4	25
13	Electrospraying of a nano-hydroxyapatite suspension. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 1029-1032	4.3	38
12	In vitro assessment of the biological response to nano-sized hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2004</b> , 15, 441-5	4.5	153
11	Relic and droplet sizes produced by electrostatic atomisation of ceramic suspensions. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 78, 343-347	2.6	17
10	Electrostatic atomisation of a ceramic suspension. <i>Journal of the European Ceramic Society</i> , <b>2004</b> , 24, 2203-2213	6	52
9	Controlled deposition of nanoparticle clusters by electrohydrodynamic atomization. <i>Nanotechnology</i> , <b>2004</b> , 15, 1519-1523	3.4	56
8	Electrically forced jets and microthreads of high viscosity dielectric liquids. <i>Journal of Aerosol Science</i> , <b>2004</b> , 35, 233-243	4.3	31
7	A novel process for simulataneous printing of multiple tracks from concentrated suspensions. <i>Materials Research Innovations</i> , <b>2003</b> , 7, 62-64	1.9	41
6	Electrostatic atomization of chitosan. <i>Journal of Materials Science Letters</i> , <b>2003</b> , 22, 1443-1445		8
5	Preparation of collagen films by electrostatic atomization. <i>Journal of Materials Science Letters</i> , <b>2003</b> , 22, 1617-1619		6
4	A novel ceramic printing technique based on electrostatic atomization of a suspension. <i>Materials Research Innovations</i> , <b>2002</b> , 6, 92-95	1.9	65
3	Obtaining fine droplet relics by electrostatic atomization of viscous liquids. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 371-373		4



2 A Novel Method of Forming Open Cell Ceramic Foam. *Journal of Porous Materials*, **2002**, 9, 265-273 2.4 43

1 Effect of viscosity on the size of relics produced by electrostatic atomization. *Journal of Aerosol Science*, **2002**, 33, 1379-1388 4.3 101