

Mohan Edirisinghe

List of Publications by Citations

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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.

171 papers	5,091 citations	36 h-index	62 g-index
186 ext. papers	5,819 ext. citations	5.9 avg, IF	6.38 L-index

#	Paper	IF	Citations
171	Electrospinning versus fibre production methods: from specifics to technological convergence. <i>Chemical Society Reviews</i> , 2012 , 41, 4708-35	58.5	468
170	A novel method of selecting solvents for polymer electrospinning. <i>Polymer</i> , 2010 , 51, 1654-1662	3.9	227
169	Novel microbubble preparation technologies. <i>Soft Matter</i> , 2008 , 4, 2350	3.6	193
168	Mapping the Influence of Solubility and Dielectric Constant on Electrospinning Polycaprolactone Solutions. <i>Macromolecules</i> , 2012 , 45, 4669-4680	5.5	172
167	Forming of polymer nanofibers by a pressurised gyration process. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1134-9	4.8	169
166	Drug Delivery Strategies for Platinum-Based Chemotherapy. <i>ACS Nano</i> , 2017 , 11, 8560-8578	16.7	118
165	Generation of multilayered structures for biomedical applications using a novel tri-needle coaxial device and electrohydrodynamic flow. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 1255-61	4.1	101
164	A new method for the preparation of monoporous hollow microspheres. <i>Langmuir</i> , 2010 , 26, 5115-21	4	96
163	Developments in Pressurized Gyration for the Mass Production of Polymeric Fibers. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800218	3.9	95
162	One-step electrohydrodynamic production of drug-loaded micro- and nanoparticles. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 667-75	4.1	89
161	Experimental and theoretical investigation of the fluid behavior during polymeric fiber formation with and without pressure. <i>Applied Physics Reviews</i> , 2019 , 6, 041401	17.3	80
160	Bacterial cellulose micro-nano fibres for wound healing applications. <i>Biotechnology Advances</i> , 2020 , 41, 107549	17.8	77
159	Electrohydrodynamic Direct Writing of Biomedical Polymers and Composites. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 315-319	3.9	65
158	Facile synthesis of both needle-like and spherical hydroxyapatite nanoparticles: effect of synthetic temperature and calcination on morphology, crystallite size and crystallinity. <i>Materials Science and Engineering C</i> , 2014 , 42, 83-90	8.3	64
157	Preparation of multilayered polymeric structures using a novel four-needle coaxial electrohydrodynamic device. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 618-23	4.8	64
156	Dynamics of bubble formation in highly viscous liquids. <i>Langmuir</i> , 2008 , 24, 4388-93	4	63
155	Electrosprayed nanoparticle delivery system for controlled release. <i>Materials Science and Engineering C</i> , 2016 , 66, 138-146	8.3	61

154	Formation of protein and protein-gold nanoparticle stabilized microbubbles by pressurized gyration. <i>Langmuir</i> , 2015 , 31, 659-66	4	58
153	Controlling the thickness of hollow polymeric microspheres prepared by electrohydrodynamic atomization. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 4, S451-60	4.1	57
152	Electrohydrodynamic encapsulation of cisplatin in poly (lactic-co-glycolic acid) nanoparticles for controlled drug delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1919-1929	6	56
151	A comparison of methods to assess the antimicrobial activity of nanoparticle combinations on bacterial cells. <i>PLoS ONE</i> , 2018 , 13, e0192093	3.7	52
150	Design, construction and performance of a portable handheld electrohydrodynamic multi-needle spray gun for biomedical applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 213-23	8.3	51
149	Nanocomposites: suitable alternatives as antimicrobial agents. <i>Nanotechnology</i> , 2018 , 29, 282001	3.4	49
148	Investigating the particle to fibre transition threshold during electrohydrodynamic atomization of a polymer solution. <i>Materials Science and Engineering C</i> , 2016 , 65, 240-50	8.3	49
147	Coupling Infusion and Gyration for the Nanoscale Assembly of Functional Polymer Nanofibers Integrated with Genetically Engineered Proteins. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1322-8	4.8	46
146	Solubility/spinnability map and model for the preparation of fibres of polyethylene (terephthalate) using gyration and pressure. <i>Chemical Engineering Journal</i> , 2015 , 280, 344-353	14.7	46
145	Release profile and characteristics of electrosprayed particles for oral delivery of a practically insoluble drug. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 2437-49	4.1	46
144	Current methodologies and approaches for the formation of core/sheath polymer fibers for biomedical applications. <i>Applied Physics Reviews</i> , 2020 , 7, 041302	17.3	45
143	Microstructure and antibacterial efficacy of graphene oxide nanocomposite fibres. <i>Journal of Colloid and Interface Science</i> , 2020 , 571, 239-252	9.3	42
142	Polymer-Magnetic Composite Fibers for Remote-Controlled Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15524-15531	9.5	42
141	The effect of graphene-poly(methyl methacrylate) fibres on microbial growth. <i>Interface Focus</i> , 2018 , 8, 20170058	3.9	42
140	Preparation of monodisperse microbubbles using an integrated embedded capillary T-junction with electrohydrodynamic focusing. <i>Lab on A Chip</i> , 2014 , 14, 2437-46	7.2	42
139	Highly Stretchable and Highly Resilient Polymer-Clay Nanocomposite Hydrogels with Low Hysteresis. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22223-22234	9.5	41
138	Making Nonwoven Fibrous Poly(ε-caprolactone) Constructs for Antimicrobial and Tissue Engineering Applications by Pressurized Melt Gyration. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 922-934	3.9	38
137	Electrospraying and Electrospinning of Chocolate Suspensions. <i>Food and Bioprocess Technology</i> , 2012 , 5, 2285-2300	5.1	37

136	Generation of poly(N-vinylpyrrolidone) nanofibres using pressurised gyration. <i>Materials Science and Engineering C</i> , 2014 , 39, 168-76	8.3	36
135	Direct Writing of Polycaprolactone Polymer for Potential Biomedical Engineering Applications. <i>Advanced Engineering Materials</i> , 2011 , 13, B296-B305	3.5	36
134	Poly(3-hydroxyoctanoate), a promising new material for cardiac tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e495-e512	4.4	35
133	Preparation of bone-implants by coating hydroxyapatite nanoparticles on self-formed titanium dioxide thin-layers on titanium metal surfaces. <i>Materials Science and Engineering C</i> , 2016 , 63, 172-84	8.3	35
132	Simultaneous Application of Pressure-Infusion-Gyration to Generate Polymeric Nanofibers. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600564	3.9	35
131	Antibacterial Activity and Biosensing of PVA-Lysozyme Microbubbles Formed by Pressurized Gyration. <i>Langmuir</i> , 2015 , 31, 9771-80	4	34
130	The effect of surfactant type and concentration on the size and stability of microbubbles produced in a capillary embedded T-junction device. <i>RSC Advances</i> , 2015 , 5, 10751-10762	3.7	34
129	Continuous generation of ethyl cellulose drug delivery nanocarriers from microbubbles. <i>Pharmaceutical Research</i> , 2013 , 30, 225-37	4.5	34
128	Application of Electrohydrodynamic Technology for Folic Acid Encapsulation. <i>Food and Bioprocess Technology</i> , 2013 , 6, 1837-1846	5.1	34
127	Making nanofibres of mucoadhesive polymer blends for vaginal therapies. <i>European Polymer Journal</i> , 2015 , 70, 186-196	5.2	33
126	Electrohydrodynamic fabrication of core-shell PLGA nanoparticles with controlled release of cisplatin for enhanced cancer treatment. <i>International Journal of Nanomedicine</i> , 2017 , 12, 3913-3926	7.3	33
125	Mucoadhesion of Progesterone-Loaded Drug Delivery Nanofiber Constructs. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13381-13389	9.5	33
124	PEEK surface modification by fast ambient-temperature sulfonation for bone implant applications. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180955	4.1	32
123	Fabrication of biomaterials via controlled protein bubble generation and manipulation. <i>Biomacromolecules</i> , 2011 , 12, 4291-300	6.9	32
122	A novel process for drug encapsulation using a liquid to vapour phase change material. <i>Soft Matter</i> , 2009 , 5, 5029	3.6	32
121	Preparation of polymeric and ceramic porous capsules by a novel electrohydrodynamic process. <i>Pharmaceutical Development and Technology</i> , 2008 , 13, 425-32	3.4	32
120	Physio-chemical and antibacterial characteristics of pressure spun nylon nanofibres embedded with functional silver nanoparticles. <i>Materials Science and Engineering C</i> , 2015 , 56, 195-204	8.3	31
119	Preparation of polymeric nanoparticles by novel electrospray nanoprecipitation. <i>Polymer International</i> , 2015 , 64, 183-187	3.3	31

118	Core-Liquid-Induced Transition from Coaxial Electrospray to Electrospinning of Low-Viscosity Poly(lactide-co-glycolide) Sheath Solution. <i>Macromolecules</i> , 2014 , 47, 7930-7938	5.5	31
117	Engineering a material for biomedical applications with electric field assisted processing. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 31-37	2.6	31
116	Ethyl cellulose, cellulose acetate and carboxymethyl cellulose microstructures prepared using electrohydrodynamics and green solvents. <i>Cellulose</i> , 2018 , 25, 1687-1703	5.5	30
115	The development of progesterone-loaded nanofibers using pressurized gyration: A novel approach to vaginal delivery for the prevention of pre-term birth. <i>International Journal of Pharmaceutics</i> , 2018 , 540, 31-39	6.5	30
114	Novel Making of Bacterial Cellulose Blended Polymeric Fiber Bandages. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700607	3.9	30
113	Development and Characterization of Amorphous Nanofiber Drug Dispersions Prepared Using Pressurized Gyration. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3851-61	5.6	30
112	Generation of Core-Sheath Polymer Nanofibers by Pressurised Gyration. <i>Polymers</i> , 2020 , 12,	4.5	30
111	Evaluation of burst release and sustained release of pioglitazone-loaded fibrous mats on diabetic wound healing: an and comparison study. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190712	4.1	29
110	Effect of operating conditions and liquid physical properties on the size of monodisperse microbubbles produced in a capillary embedded T-junction device. <i>Microfluidics and Nanofluidics</i> , 2013 , 14, 797-808	2.8	29
109	Novel pressurised gyration device for making core-sheath polymer fibres. <i>Materials and Design</i> , 2019 , 178, 107846	8.1	28
108	Novel Preparation, Microstructure, and Properties of Polyacrylonitrile-Based Carbon Nanofiber-Graphene Nanoplatelet Materials. <i>ACS Omega</i> , 2016 , 1, 202-211	3.9	26
107	Gyrospon antimicrobial nanoparticle loaded fibrous polymeric filters. <i>Materials Science and Engineering C</i> , 2017 , 74, 315-324	8.3	24
106	Core/shell microencapsulation of indomethacin/paracetamol by co-axial electrohydrodynamic atomization. <i>Materials and Design</i> , 2017 , 136, 204-213	8.1	24
105	Anti-fungal bandages containing cinnamon extract. <i>International Wound Journal</i> , 2019 , 16, 730-736	2.6	24
104	A Comparison of Electric-Field-Driven and Pressure-Driven Fiber Generation Methods for Drug Delivery. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700577	3.9	24
103	Beads, beaded-fibres and fibres: Tailoring the morphology of poly(caprolactone) using pressurised gyration. <i>Materials Science and Engineering C</i> , 2016 , 69, 1373-82	8.3	24
102	Accelerated diabetic wound healing by topical application of combination oral antidiabetic agents-loaded nanofibrous scaffolds: An in vitro and in vivo evaluation study. <i>Materials Science and Engineering C</i> , 2021 , 119, 111586	8.3	23
101	Antimicrobial activity of tellurium-loaded polymeric fiber meshes. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46368	2.9	22

100	Facile one-pot formation of ceramic fibres from preceramic polymers by pressurised gyration. <i>Ceramics International</i> , 2015 , 41, 6067-6073	5.1	21
99	Preparation of poly(glycerol sebacate) fibers for tissue engineering applications. <i>European Polymer Journal</i> , 2019 , 121, 109297	5.2	21
98	Surface interactions and viability of coronaviruses. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20200798	4.98	21
97	The comparison of glybenclamide and metformin-loaded bacterial cellulose/gelatin nanofibres produced by a portable electrohydrodynamic gun for diabetic wound healing. <i>European Polymer Journal</i> , 2020 , 134, 109844	5.2	20
96	Fiber Forming Capability of Binary and Ternary Compositions in the Polymer System: Bacterial Cellulose-Polycaprolactone-Polylactic Acid. <i>Polymers</i> , 2019 , 11,	4.5	20
95	A portable device for in situ deposition of bioproducts. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2014 , 3, 94-105	1.3	20
94	Co-Culture of Keratinocyte-Staphylococcus aureus on Cu-Ag-Zn/CuO and Cu-Ag-W Nanoparticle Loaded Bacterial Cellulose:PMMA Bandages. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800537	3.9	19
93	Viral Filtration Using Carbon-Based Materials. <i>Medical Devices & Sensors</i> , 2020 , 3, e10107	1.6	19
92	Graphene nanoplatelets loaded polyurethane and phenolic resin fibres by combination of pressure and gyration. <i>Composites Science and Technology</i> , 2016 , 129, 173-182	8.6	19
91	Cellular interactions with bacterial cellulose: Polycaprolactone nanofibrous scaffolds produced by a portable electrohydrodynamic gun for point-of-need wound dressing. <i>International Wound Journal</i> , 2018 , 15, 789-797	2.6	19
90	Porous Polymeric Films from Microbubbles Generated Using a T-Junction Microfluidic Device. <i>Langmuir</i> , 2016 , 32, 13377-13385	4	18
89	New Generation of Tunable Bioactive Shape Memory Mats Integrated with Genetically Engineered Proteins. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600270	5.5	18
88	Microfluidic preparation of polymer nanospheres. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 2626	2.3	18
87	Electrospinning short polymer micro-fibres with average aspect ratios in the range of 10000. <i>Journal of Polymer Research</i> , 2011 , 18, 2515-2522	2.7	18
86	A novel reusable anti-COVID-19 transparent face respirator with optimized airflow. <i>Bio-Design and Manufacturing</i> , 2020 , 4, 1-9	4.7	18
85	Bioinspired preparation of alginate nanoparticles using microbubble bursting. <i>Materials Science and Engineering C</i> , 2015 , 46, 132-9	8.3	17
84	Calcium Alginate Foams Prepared by a Microfluidic T-Junction System: Stability and Food Applications. <i>Food and Bioprocess Technology</i> , 2012 , 5, 2848-2857	5.1	17
83	A novel treatment strategy for preterm birth: Intra-vaginal progesterone-loaded fibrous patches. <i>International Journal of Pharmaceutics</i> , 2020 , 588, 119782	6.5	17

82	Wholly Biobased, Highly Stretchable, Hydrophobic, and Self-healing Thermoplastic Elastomer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6720-6730	9.5	17
81	Composite nanoclay-hydroxyapatite-polymer fiber scaffolds for bone tissue engineering manufactured using pressurized gyration. <i>Composites Science and Technology</i> , 2021 , 202, 108598	8.6	16
80	Honeycomb-like PLGA- b-PEG Structure Creation with T-Junction Microdroplets. <i>Langmuir</i> , 2018 , 34, 7989-7997	4	16
79	Comparative Study of the Antimicrobial Effects of Tungsten Nanoparticles and Tungsten Nanocomposite Fibres on Hospital Acquired Bacterial and Viral Pathogens. <i>Nanomaterials</i> , 2020 , 10,	5.4	15
78	Microstructure and mechanical properties of synthetic brow-suspension materials. <i>Materials Science and Engineering C</i> , 2014 , 35, 220-30	8.3	15
77	Latest developments in innovative manufacturing to combine nanotechnology with healthcare. <i>Nanomedicine</i> , 2018 , 13, 5-8	5.6	15
76	Electrosprayed microparticles for intestinal delivery of prednisolone. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	15
75	Electrospinning Optimization of Eudragit E PO with and without Chlorpheniramine Maleate Using a Design of Experiment Approach. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2557-2568	5.6	14
74	Novel preparation of controlled porosity particle/fibre loaded scaffolds using a hybrid micro-fluidic and electrohydrodynamic technique. <i>Biofabrication</i> , 2014 , 6, 045010	10.5	14
73	Effect of copolymer composition on particle morphology and release behavior in vitro using progesterone. <i>Materials and Design</i> , 2018 , 159, 57-67	8.1	14
72	The generation of compartmentalized nanoparticles containing siRNA and cisplatin using a multi-needle electrohydrodynamic strategy. <i>Nanoscale</i> , 2017 , 9, 5975-5985	7.7	13
71	An Inexpensive, Portable Device for Point-of-Need Generation of Silver-Nanoparticle Doped Cellulose Acetate Nanofibers for Advanced Wound Dressing. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700586	3.9	13
70	An encapsulated drug delivery system for recalcitrant urinary tract infection. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130747	4.1	13
69	Harnessing Polyhydroxyalkanoates and Pressurized Gyration for Hard and Soft Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32624-32639	9.5	13
68	Tailoring the surface of polymeric nanofibres generated by pressurised gyration. <i>Surface Innovations</i> , 2016 , 4, 167-178	1.9	12
67	Evolution of Surface Nanopores in Pressurised Gyrospun Polymeric Microfibers. <i>Polymers</i> , 2017 , 9,	4.5	12
66	Forming of Protein Bubbles and Porous Films Using Co-Axial Electrohydrodynamic Flow Processing. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 8-13	3.9	12
65	Bioinspired bubble design for particle generation. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 389-95	4.1	12

64	Process Modeling for the Fiber Diameter of Polymer, Spun by Pressure-Coupled Infusion Gyration. <i>ACS Omega</i> , 2018 , 3, 5470-5479	3.9	12
63	Boron nitride nanoscrolls: Structure, synthesis, and applications. <i>Applied Physics Reviews</i> , 2019 , 6, 021310	7.3	11
62	General Computational Methodology for Modeling Electrohydrodynamic Flows: Prediction and Optimization Capability for the Generation of Bubbles and Fibers. <i>Langmuir</i> , 2019 , 35, 10203-10212	4	11
61	Effect of humidity on the generation and control of the morphology of honeycomb-like polymeric structures by electrospinning. <i>European Polymer Journal</i> , 2014 , 61, 72-82	5.2	11
60	Novel encapsulation systems and processes for overcoming the challenges of polypharmacy. <i>Current Opinion in Pharmacology</i> , 2014 , 18, 28-34	5.1	11
59	Creating "hotels" for cells by electrospinning honeycomb-like polymeric structures. <i>Materials Science and Engineering C</i> , 2013 , 33, 4384-91	8.3	11
58	Characterisation of the Chemical Composition and Structural Features of Novel Antimicrobial Nanoparticles. <i>Nanomaterials</i> , 2017 , 7,	5.4	11
57	Combining microfluidic devices with coarse capillaries to reduce the size of monodisperse microbubbles. <i>RSC Advances</i> , 2016 , 6, 63568-63577	3.7	11
56	Fiber Formation from Silk Fibroin Using Pressurized Gyration. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800577	3.9	10
55	Electrosprayed microparticles: a novel drug delivery method. <i>Expert Opinion on Drug Delivery</i> , 2019 , 16, 895-901	8	10
54	Utilization of microfluidic V-junction device to prepare surface itraconazole adsorbed nanospheres. <i>International Journal of Pharmaceutics</i> , 2014 , 472, 339-46	6.5	10
53	The design and construction of an electrohydrodynamic cartesian robot for the preparation of tissue engineering constructs. <i>PLoS ONE</i> , 2014 , 9, e112166	3.7	10
52	Core-sheath polymer nanofiber formation by the simultaneous application of rotation and pressure in a novel purpose-designed vessel. <i>Applied Physics Reviews</i> , 2021 , 8, 041412	17.3	10
51	Novel Preparation of Monodisperse Microbubbles by Integrating Oscillating Electric Fields with Microfluidics. <i>Micromachines</i> , 2018 , 9,	3.3	10
50	A device for the fabrication of multifunctional particles from microbubble suspensions. <i>Materials Science and Engineering C</i> , 2012 , 32, 1005-1010	8.3	9
49	Evolution of self-generating porous microstructures in polyacrylonitrile-cellulose acetate blend fibres. <i>Materials and Design</i> , 2017 , 134, 259-271	8.1	9
48	A novel hybrid system for the fabrication of a fibrous mesh with micro-inclusions. <i>Carbohydrate Polymers</i> , 2012 , 89, 222-9	10.3	9
47	Co-Axial Gyro-Spinning of PCL/PVA/HA Core-Sheath Fibrous Scaffolds for Bone Tissue Engineering. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100177	5.5	9

46	Effect of the Mixing Region Geometry and Collector Distance on Microbubble Formation in a Microfluidic Device Coupled with ac-dc Electric Fields. <i>Langmuir</i> , 2019 , 35, 10052-10060	4	8
45	Self-assembled micro-stripe patterning of sessile polymeric nanofluid droplets. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 470-480	9.3	8
44	Manufacturing Man-Made Magnetosomes: High-Throughput In Situ Synthesis of Biomimetic Magnetite Loaded Nanovesicles. <i>Macromolecular Bioscience</i> , 2016 , 16, 1555-1561	5.5	8
43	Biofabrication of Gelatin Tissue Scaffolds with Uniform Pore Size via Microbubble Assembly. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900394	3.9	7
42	Novel antibiotic-loaded particles conferring eradication of deep tissue bacterial reservoirs for the treatment of chronic urinary tract infection. <i>Journal of Controlled Release</i> , 2020 , 328, 490-502	11.7	7
41	Rapid and label-free detection of COVID-19 using coherent anti-Stokes Raman scattering microscopy. <i>MRS Communications</i> , 2020 , 10, 566-572	2.7	7
40	Metformin-Loaded Polymer-Based Microbubbles/Nanoparticles Generated for the Treatment of Type 2 Diabetes Mellitus. <i>Langmuir</i> , 2021 ,	4	7
39	Analysis of blink dynamics in patients with blepharoptosis. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	7
38	Enhanced efficacy in drug-resistant cancer cells through synergistic nanoparticle mediated delivery of cisplatin and decitabine. <i>Nanoscale Advances</i> , 2020 , 2, 1177-1186	5.1	6
37	Electrohydrodynamic printing of silk fibroin. <i>Macromolecular Research</i> , 2013 , 21, 339-342	1.9	6
36	Controlled preparation of drug-exchange phase loaded polymeric fibres. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2012 , 1, 48-56	1.3	6
35	COVID-19: Facemasks, healthcare policies and risk factors in the crucial initial months of a global pandemic. <i>Medical Devices & Sensors</i> , 2020 , 3, e10120	1.6	6
34	Effectiveness of Oil-Layered Albumin Microbubbles Produced Using Microfluidic T-Junctions in Series for In Vitro Inhibition of Tumor Cells. <i>Langmuir</i> , 2020 , 36, 11429-11441	4	6
33	Changing the Size and Surface Roughness of Polymer Nanospheres Formed Using a Microfluidic Technique. <i>Jom</i> , 2015 , 67, 811-817	2.1	5
32	Novel electrically driven direct-writing methods with managed control on in-situ shape and encapsulation polymer forming. <i>International Journal of Material Forming</i> , 2013 , 6, 281-288	2	5
31	Porous Graphene Composite Polymer Fibres. <i>Polymers</i> , 2020 , 13,	4.5	5
30	Utilising Co-Axial Electrospinning as a Taste-Masking Technology for Paediatric Drug Delivery. <i>Pharmaceutics</i> , 2021 , 13,	6.4	5
29	Perspective: Covid-19; emerging strategies and material technologies. <i>Emergent Materials</i> , 2021 , 4, 1-6	3.5	5

28	Empirical modelling and optimization of pressure-coupled infusion gyration parameters for the nanofibre fabrication. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20190008	2.4	4
27	The biomedical applications of graphene. <i>Interface Focus</i> , 2018 , 8, 20180006	3.9	4
26	Alginate foam-based three-dimensional culture to investigate drug sensitivity in primary leukaemia cells. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	4
25	Development of artificial bone marrow fibre scaffolds to study resistance to anti-leukaemia agents. <i>British Journal of Haematology</i> , 2018 , 182, 924-927	4.5	4
24	Copolymer Composition and Nanoparticle Configuration Enhance in vitro Drug Release Behavior of Poorly Water-soluble Progesterone for Oral Formulations. <i>International Journal of Nanomedicine</i> , 2020 , 15, 5389-5403	7.3	4
23	Next-generation Antimicrobial Peptides (AMPs) incorporated nanofibre wound dressings. <i>Medical Devices & Sensors</i> , 2021 , 4, e10144	1.6	4
22	Vitamin D/vitamin K/magnesium-loaded polylactic acid/tricalcium phosphate/polycaprolactone composite nanofibers demonstrated osteoinductive effect by increasing Runx2 via Wnt/ β -catenin pathway. <i>International Journal of Biological Macromolecules</i> , 2021 , 190, 244-258	7.9	4
21	Microstructure of fibres pressure-spun from polyacrylonitrile/graphene oxide composite mixtures. <i>Composites Science and Technology</i> , 2020 , 197, 108214	8.6	3
20	Preface to the Microbubbles: Exploring Gas-Liquid Interfaces for Biomedical Applications Special Issue. <i>Langmuir</i> , 2019 , 35, 9995-9996	4	3
19	Severe Acute Respiratory Syndrome Type 2-Causing Coronavirus: Variants and Preventive Strategies.. <i>Advanced Science</i> , 2022 , e2104495	13.6	3
18	The effect of needle tip displacement in co-axial electrohydrodynamic processing. <i>RSC Advances</i> , 2016 , 6, 75258-75268	3.7	3
17	The influence of drug solubility and sampling frequency on metformin and glibenclamide release from double-layered particles: experimental analysis and mathematical modelling. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190237	4.1	2
16	Generating Antibacterial Microporous Structures Using Microfluidic Processing. <i>ACS Omega</i> , 2019 , 4, 2225-2233	3.9	2
15	Stress-relaxation and fatigue behaviour of synthetic brow-suspension materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 42, 116-28	4.1	2
14	Optimization of Process-Control Parameters for the Diameter of Electrospun Hydrophilic Polymeric Composite Nanofibers. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100471	3.9	2
13	Metal-based nanoparticles for combating antibiotic resistance. <i>Applied Physics Reviews</i> , 2021 , 8, 041303	17.3	2
12	Poly(Caprolactone)-Poly(N-Isopropyl Acrylamide)-Fe ₃ O ₄ Magnetic Nanofibrous Structure with Stimuli Responsive Drug Release. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000208	3.9	2
11	The effect of solvent and pressure on polycaprolactone solutions for particle and fibre formation. <i>European Polymer Journal</i> , 2022 , 173, 111300	5.2	2

10	Macromol. Biosci. 11/2016. <i>Macromolecular Bioscience</i> , 2016 , 16, 1736-1736	5.5	1
9	Scaling the heights--challenges in medical materials. Introduction. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 4, S377-8	4.1	1
8	Videographic Analysis of Blink Dynamics following Upper Eyelid Blepharoplasty and Its Association with Dry Eye. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2020 , 8, e2991	1.2	1
7	Enhancing In Vitro Stability of Albumin Microbubbles Produced Using Microfluidic T-Junction Device. <i>Langmuir</i> , 2021 ,	4	1
6	Optimised release of tetracycline hydrochloride from core-sheath fibres produced by pressurised gyration. <i>Journal of Drug Delivery Science and Technology</i> , 2022 , 72, 103359	4.5	1
5	Nozzle-Pressurized Gyration: A Novel Fiber Manufacturing Process. <i>Macromolecular Materials and Engineering</i> , 2200268	3.9	1
4	Exploiting the antiviral potential of intermetallic nanoparticles. <i>Emergent Materials</i> , 2021 , 1-10	3.5	0
3	Binary polymer systems for biomedical applications. <i>International Materials Reviews</i> , 1-41	16.1	0
2	Scaling the heights--challenges in medical materials. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 5, S501-2	4.1	
1	Facile Ceramic Micro-Structure Generation Using Electrohydrodynamic Processing and Pyrolysis. <i>Ceramic Transactions</i> , 81-86	0.1	