

Tim R Dargaville

List of Publications by Year in descending order

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84
papers

4,669
citations

136740

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98622

67
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87
all docs

87
docs citations

87
times ranked

6947
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, fabrication and characterization of PCL electrospun scaffolds—a review. <i>Journal of Materials Chemistry</i> , 2011, 21, 9419.	6.7	499
2	Degradation mechanisms of polycaprolactone in the context of chemistry, geometry and environment. <i>Progress in Polymer Science</i> , 2019, 96, 1-20.	11.8	366
3	Electrospraying of polymers with therapeutic molecules: State of the art. <i>Progress in Polymer Science</i> , 2012, 37, 1510-1551.	11.8	363
4	Sensors and imaging for wound healing: A review. <i>Biosensors and Bioelectronics</i> , 2013, 41, 30-42.	5.3	352
5	High energy radiation grafting of fluoropolymers. <i>Progress in Polymer Science</i> , 2003, 28, 1355-1376.	11.8	330
6	Electrospraying, a Reproducible Method for Production of Polymeric Microspheres for Biomedical Applications. <i>Polymers</i> , 2011, 3, 131-149.	2.0	262
7	Electrospinning and additive manufacturing: converging technologies. <i>Biomaterials Science</i> , 2013, 1, 171-185.	2.6	207
8	Discovering Cell-Adhesion Peptides in Tissue Engineering: Beyond RGD. <i>Trends in Biotechnology</i> , 2018, 36, 372-383.	4.9	194
9	Dermal fibroblast infiltration of poly(μ -caprolactone) scaffolds fabricated by melt electrospinning in a direct writing mode. <i>Biofabrication</i> , 2013, 5, 025001.	3.7	172
10	Chitosan—collagen scaffolds with nano/microfibrous architecture for skin tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3482-3492.	2.1	88
11	Poly(2-oxazoline) Hydrogels for Controlled Fibroblast Attachment. <i>Biomacromolecules</i> , 2013, 14, 2724-2732.	2.6	86
12	Poly(2-oxazoline) Hydrogel Monoliths via Thiol—ene Coupling. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1695-1700.	2.0	75
13	Scaffolds for Growth Factor Delivery as Applied to Bone Tissue Engineering. <i>International Journal of Polymer Science</i> , 2012, 2012, 1-25.	1.2	73
14	Additive manufacturing with polypropylene microfibers. <i>Materials Science and Engineering C</i> , 2017, 77, 883-887.	3.8	71
15	Recent advances in dermal wound healing: biomedical device approaches. <i>Expert Review of Medical Devices</i> , 2010, 7, 143-154.	1.4	70
16	Poly(2-oxazoline) Hydrogels: State-of-the-Art and Emerging Applications. <i>Macromolecular Bioscience</i> , 2018, 18, e1800070.	2.1	70
17	Emulating Human Tissues and Organs: A Bioprinting Perspective Toward Personalized Medicine. <i>Chemical Reviews</i> , 2020, 120, 11093-11139.	23.0	61
18	Opinion to address the personal protective equipment shortage in the global community during the COVID-19 outbreak. <i>Polymer Degradation and Stability</i> , 2020, 176, 109162.	2.7	55

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19	Evaluation of piezoelectric poly(vinylidene fluoride) polymers for use in space environments. I. Temperature limitations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1310-1320.	2.4	53
20	Extended use of face masks during the COVID-19 pandemic - Thermal conditioning and spray-on surface disinfection. <i>Polymer Degradation and Stability</i> , 2020, 179, 109251.	2.7	51
21	Modified alumina nanofiber membranes for protein separation. <i>Separation and Purification Technology</i> , 2013, 120, 239-244.	3.9	49
22	Tailored Melt Electrowritten Scaffolds for the Generation of Sheet-Like Tissue Constructs from Multicellular Spheroids. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801326.	3.9	48
23	3D printed dual macro-, microscale porous network as a tissue engineering scaffold with drug delivering function. <i>Biofabrication</i> , 2019, 11, 035014.	3.7	47
24	Physico-chemical/biological properties of tripolyphosphate cross-linked chitosan based nanofibers. <i>Materials Science and Engineering C</i> , 2013, 33, 1446-1454.	3.8	46
25	Attenuation of protease activity in chronic wound fluid with bisphosphonate-functionalised hydrogels. <i>Biomaterials</i> , 2008, 29, 1785-1795.	5.7	45
26	Multireactive Poly(2-oxazoline) Nanofibers through Electrospinning with Crosslinking on the Fly. <i>ACS Macro Letters</i> , 2016, 5, 676-681.	2.3	41
27	Controlling microencapsulation and release of micronized proteins using poly(ethylene glycol) and electro spraying. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 366-377.	2.0	39
28	Poly(2-oxazoline) block copolymer nanoparticles for curcumin loading and delivery to cancer cells. <i>European Polymer Journal</i> , 2017, 93, 682-694.	2.6	36
29	The Adsorption of Multinuclear Phenolic Compounds on Activated Carbon. <i>Journal of Colloid and Interface Science</i> , 1996, 182, 17-25.	5.0	35
30	Amphiphilic Silicone Architectures via Anaerobic Thiol-Ene Chemistry. <i>Organic Letters</i> , 2011, 13, 6006-6009.	2.4	35
31	High-Speed MAS 19F NMR Analysis of an Irradiated Fluoropolymer. <i>Macromolecules</i> , 2002, 35, 5544-5549.	2.2	34
32	Unexpected Switching of the Photogelation Chemistry When Cross-Linking Poly(2-oxazoline) Copolymers. <i>Macromolecules</i> , 2016, 49, 4774-4783.	2.2	34
33	Hierarchically Structured Porous Poly(2-oxazoline) Hydrogels. <i>Macromolecular Rapid Communications</i> , 2016, 37, 93-99.	2.0	33
34	Poly(2-oxazoline) hydrogels as next generation three-dimensional cell supports. <i>Cell Adhesion and Migration</i> , 2014, 8, 88-93.	1.1	27
35	Composites for Delivery of Therapeutics: Combining Melt Electrospun Scaffolds with Loaded Electro sprayed Microparticles. <i>Macromolecular Bioscience</i> , 2014, 14, 202-214.	2.1	27
36	Light-induced Ligation of <i>o</i> -Quinodimethanes with Gated Fluorescence Self-reporting. <i>Journal of the American Chemical Society</i> , 2020, 142, 7744-7748.	6.6	26

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37	Architecture-inspired paradigm for 3D bioprinting of vessel-like structures using extrudable carboxylated agarose hydrogels. <i>Emergent Materials</i> , 2019, 2, 233-243.	3.2	25
38	Cross-Linking of PFA by Electron Beam Irradiation. <i>Macromolecules</i> , 2003, 36, 7138-7142.	2.2	21
39	Peptide-functionalized polymeric nanoparticles for active targeting of damaged tissue in animals with experimental autoimmune encephalomyelitis. <i>Neuroscience Letters</i> , 2015, 602, 126-132.	1.0	21
40	Prevascularized Retrievable Hybrid Implant to Enhance Function of Subcutaneous Encapsulated Islets. <i>Tissue Engineering - Part A</i> , 2022, 28, 212-224.	1.6	21
41	Porous 3D Printed Scaffolds For Guided Bone Regeneration In a Rat Calvarial Defect Model. <i>Applied Materials Today</i> , 2020, 20, 100706.	2.3	21
42	Plasma Polymer and Biomolecule Modification of 3D Scaffolds for Tissue Engineering. <i>Plasma Processes and Polymers</i> , 2016, 13, 678-689.	1.6	20
43	An Investigation of the Thermal and Tensile Properties of PFA Following \hat{I}^3 -Radiolysis. <i>Macromolecules</i> , 2003, 36, 7132-7137.	2.2	19
44	Studies on the Effect of the Size of Polycaprolactone Microspheres for the Dispersion of Salbutamol Sulfate from Dry Powder Inhaler Formulations. <i>Pharmaceutical Research</i> , 2012, 29, 2445-2455.	1.7	19
45	The Absolute Stereochemistry of Variabilin and Related Sesterterpene Tetrionic Acids. <i>Natural Product Research</i> , 1994, 4, 51-56.	0.4	18
46	Influence of side-chain length on long-term release kinetics from poly(2-oxazoline)-drug conjugate networks. <i>European Polymer Journal</i> , 2019, 120, 109217.	2.6	18
47	Drug-polymer conjugates with dynamic cloud point temperatures based on poly(2-oxazoline) copolymers. <i>Polymer Chemistry</i> , 2020, 11, 5191-5199.	1.9	18
48	Evaluation of diagnostic tools that tertiary teachers can apply to profile their students'™ conceptions. <i>International Journal of Science Education</i> , 2017, 39, 565-586.	1.0	17
49	Polymer networks based on photo-caged diene dimerization. <i>Materials Horizons</i> , 2019, 6, 81-89.	6.4	17
50	Evaluation of piezoelectric PVDF polymers for use in space environments. II. Effects of atomic oxygen and vacuum UV exposure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 2503-2513.	2.4	16
51	Evaluation of piezoelectric PVDF polymers for use in space environments. III. Comparison of the effects of vacuum UV and gamma radiation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 3253-3264.	2.4	16
52	Local Doxorubicin Delivery via 3D-Printed Porous Scaffolds Reduces Systemic Cytotoxicity and Breast Cancer Recurrence in Mice. <i>Advanced Therapeutics</i> , 2020, 3, 2000056.	1.6	15
53	Highly Elastic Scaffolds Produced by Melt Electrowriting of Poly(L-lactide-co-ε-caprolactone). <i>Advanced Materials Technologies</i> , 2022, 7, 2100508.	3.0	15
54	A peptidomimetic inhibitor of matrix metalloproteinases containing a tetherable linker group. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 663-672.	2.1	13

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55	Polycaprolactone Microspheres as Carriers for Dry Powder Inhalers: Effect of Surface Coating on Aerosolization of Salbutamol Sulfate. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 733-745.	1.6	13
56	Matrix Metalloproteinase Biosensor Based on a Porous Silicon Reflector. <i>Australian Journal of Chemistry</i> , 2013, 66, 1428.	0.5	13
57	Crosslinking of electrospun and bioextruded partially hydrolyzed poly(2-ethyl-2-oxazoline) using glutaraldehyde vapour. <i>European Polymer Journal</i> , 2019, 120, 109218.	2.6	13
58	Improving skin integration around long-term percutaneous devices using fibrous scaffolds in a reconstructed human skin equivalent model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 738-749.	1.6	13
59	Antibacterial Albumin-Tannic Acid Coatings for Scaffold-Guided Breast Reconstruction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 638577.	2.0	13
60	Inhaled ciprofloxacin-loaded poly(2-ethyl-2-oxazoline) nanoparticles from dry powder inhaler formulation for the potential treatment of lower respiratory tract infections. <i>PLoS ONE</i> , 2021, 16, e0261720.	1.1	13
61	Antithrombogenic peripherally inserted central catheters: overview of efficacy and safety. <i>Expert Review of Medical Devices</i> , 2019, 16, 25-33.	1.4	12
62	Selection and Optimization of Piezoelectric Polyvinylidene Fluoride Polymers for Adaptive Optics in Space Environments. <i>High Performance Polymers</i> , 2005, 17, 575-592.	0.8	11
63	Colloidal drug probe: Method development and validation for adhesion force measurement using Atomic Force Microscopy. <i>Advanced Powder Technology</i> , 2014, 25, 1240-1248.	2.0	11
64	Poly(2-allylamidopropyl-2-oxazoline)-Based Hydrogels: From Accelerated Gelation Kinetics to <i>In Vivo</i> Compatibility in a Murine Subdermal Implant Model. <i>Biomacromolecules</i> , 2021, 22, 1590-1599.	2.6	11
65	Thermoresponsive Polymer-Antibiotic Conjugates Based on Gradient Copolymers of 2-Oxazoline and 2-Oxazine. <i>Biomacromolecules</i> , 2021, 22, 5185-5194.	2.6	11
66	Injectable biocompatible poly(2-oxazoline) hydrogels by strain promoted alkyne-azide cycloaddition. <i>Biointerphases</i> , 2021, 16, 011001.	0.6	9
67	Initial design and physical characterization of a polymeric device for osmosis-driven delayed burst delivery of vaccines. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1927-1935.	1.7	8
68	Growth Factor-Loaded Microparticles for Tissue Engineering: The Discrepancies of In Vitro Characterization Assays. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 142-154.	1.1	8
69	An in vitro Reconstructed Human Skin Equivalent Model to Study the Role of Skin Integration Around Percutaneous Devices Against Bacterial Infection. <i>Frontiers in Microbiology</i> , 2020, 11, 670.	1.5	8
70	Going beyond RGD: screening of a cell-adhesion peptide library in 3D cell culture. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 055033.	1.7	8
71	A Self-Catalyzed Visible Light Driven Thiol Ligation. <i>Journal of the American Chemical Society</i> , 2021, 143, 7292-7297.	6.6	8
72	An Investigation of the Nitroxide-Mediated Preirradiation Grafting of Styrene onto PFA. <i>Macromolecules</i> , 2004, 37, 360-366.	2.2	7

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73	An investigation into the effect of amphiphilic siloxane oligomers on dermal fibroblasts. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1919-1927.	2.1	7
74	Hydrogels with Cell Adhesion Peptide-Decorated Channel Walls for Cell Guidance. Macromolecular Rapid Communications, 2020, 41, 2000295.	2.0	7
75	Investigation of the Vapor-Phase Grafting of Styrene onto PFA. Macromolecules, 2003, 36, 8276-8281.	2.2	6
76	The effect of amphiphilic siloxane oligomers on fibroblast and keratinocyte proliferation and apoptosis. Journal of Biomedical Materials Research - Part A, 2010, 95A, 620-631.	2.1	6
77	Production of Scaffolds Using Melt Electrospinning Writing and Cell Seeding. Methods in Molecular Biology, 2021, 2147, 111-124.	0.4	6
78	Macrocyclization efficiency for poly(2-oxazoline)s and poly(2-oxazine)s. Polymer Chemistry, 2022, 13, 3975-3980.	1.9	5
79	Elastic Bioresorbable Polymeric Capsules for Osmosis-Driven Delayed Burst Delivery of Vaccines. Pharmaceutics, 2021, 13, 434.	2.0	3
80	Spatial Patterning of Hydrogels via 3D Covalent Transfer Stamping from a Fugitive Ink. Macromolecular Rapid Communications, 2018, 39, 1700564.	2.0	2
81	Transparent, Pliable, Antimicrobial Hydrogels for Ocular Wound Dressings. Applied Sciences (Switzerland), 2020, 10, 7548.	1.3	2
82	In vivo evaluation of skin integration with ventricular assist device drivelines. Journal of Heart and Lung Transplantation, 2022, 41, 1032-1043.	0.3	2
83	Degradation of Piezoelectric Fluoropolymers in Space Environments. ACS Symposium Series, 2009, , 100-112.	0.5	0
84	Tissue adhesive and chlorhexidine gluconate interaction: Implications for vascular access device securement. Journal of Vascular Access, 2019, 20, 229-230.	0.5	0