Michael G Monaghan

List of Publications by Year
in descending order

46 papers	1,504 citations	304743 22 h-index	330143 37 g-index
53 all docs	53 docs citations	53 times ranked	2541 citing authors

#	Article	IF	Citations
1	The influence of size and charge of chitosan/polyglutamic acid hollow spheres on cellular internalization, viability and blood compatibility. Biomaterials, 2010, 31, 8188-8197.	11.4	149
2	Cross-linked Collagen Hydrogel Matrix Resisting Contraction To Facilitate Full-Thickness Skin Equivalents. ACS Applied Materials & Interfaces, 2017, 9, 20417-20425.	8.0	94
3	A Collagen-based Scaffold Delivering Exogenous MicroRNA-29B to Modulate Extracellular Matrix Remodeling. Molecular Therapy, 2014, 22, 786-796.	8.2	87
4	The rationale and emergence of electroconductive biomaterial scaffolds in cardiac tissue engineering. APL Bioengineering, 2019, 3, 041501.	6.2	84
5	RNA interference therapy via functionalized scaffolds. Advanced Drug Delivery Reviews, 2011, 63, 197-208.	13.7	76
6	A deeper understanding of intestinal organoid metabolism revealed by combining fluorescence lifetime imaging microscopy (FLIM) and extracellular flux analyses. Redox Biology, 2020, 30, 101420.	9.0	71
7	The Role of Macrophages in the Infarcted Myocardium: Orchestrators of ECM Remodeling. Frontiers in Cardiovascular Medicine, 2019, 6, 101.	2.4	70
8	Electroconductive Melt Electrowritten Patches Matching the Mechanical Anisotropy of Human Myocardium. Advanced Functional Materials, 2020, 30, 1909880.	14.9	67
9	PEDOT:PSS interfaces stabilised using a PEGylated crosslinker yield improved conductivity and biocompatibility. Journal of Materials Chemistry B, 2019, 7, 4811-4820.	5.8	59
10	An injectable elastin-based gene delivery platform for dose-dependent modulation of angiogenesis and inflammation for critical limb ischemia. Biomaterials, 2015, 65, 126-139.	11.4	53
11	Applying phasor approach analysis of multiphoton FLIM measurements to probe the metabolic activity of three-dimensional in vitro cell culture models. Scientific Reports, 2017, 7, 42730.	3.3	52
12	An actuatable soft reservoir modulates host foreign body response. Science Robotics, 2019, 4, .	17.6	49
13	Electroactive material-based biosensors for detection and drug delivery. Advanced Drug Delivery Reviews, 2021, 170, 396-424.	13.7	47
14	Impedance Spectroscopy for the Non-Destructive Evaluation of In Vitro Epidermal Models. Pharmaceutical Research, 2015, 32, 1845-1854.	3.5	45
15	Pathogenic, glycolytic PD-1+ B cells accumulate in the hypoxic RA joint. JCI Insight, 2020, 5, .	5.0	44
16	Preserved bioactivity and tunable release of a SDF1-GPVI bi-specific protein using photo-crosslinked PEGda hydrogels. Biomaterials, 2014, 35, 7180-7187.	11.4	42
17	Modulation of inflammation and angiogenesis and changes in ECM GAG-activity via dual delivery of nucleic acids. Biomaterials, 2015, 69, 133-147.	11.4	42
18	SARM1 deficiency promotes rod and cone photoreceptor cell survival in a model of retinal degeneration. Life Science Alliance, 2020, 3, e201900618.	2.8	42

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19	Exogenous miR-29B Delivery Through a Hyaluronan-Based Injectable System Yields Functional Maintenance of the Infarcted Myocardium. Tissue Engineering - Part A, 2018, 24, 57-67.	3.1	37
20	Non-invasive Chamber-Specific Identification of Cardiomyocytes in Differentiating Pluripotent Stem Cells. Stem Cell Reports, 2016, 6, 188-199.	4.8	26
21	Structural crystallisation of crosslinked 3D PEDOT:PSS anisotropic porous biomaterials to generate highly conductive platforms for tissue engineering applications. Biomaterials Science, 2021, 9, 4317-4328.	5.4	26
22	A spatiotemporal observation of EndMT and mesenchymal cell colonization at the onset of human cardiac valve development. Development (Cambridge), 2015, 143, 473-82.	2.5	25
23	Enabling Multiphoton and Second Harmonic Generation Imaging in Paraffin-Embedded and Histologically Stained Sections. Tissue Engineering - Part C: Methods, 2016, 22, 517-523.	2.1	24
24	A bioresorbable biomaterial carrier and passive stabilization device to improve heart function post-myocardial infarction. Materials Science and Engineering C, 2019, 103, 109751.	7.3	24
25	Intracellular label-free detection of mesenchymal stem cell metabolism within a perivascular niche-on-a-chip. Lab on A Chip, 2021, 21, 1395-1408.	6.0	22
26	Loss of balance between protective and pro-inflammatory synovial tissue T-cell polyfunctionality predates clinical onset of rheumatoid arthritis. Annals of the Rheumatic Diseases, 2022, 81, 193-205.	0.9	16
27	Distinct stromal and immune cell interactions shape the pathogenesis of rheumatoid and psoriatic arthritis. Annals of the Rheumatic Diseases, 2022, 81, 1224-1242.	0.9	15
28	Additive Manufacturing of Multiâ€Scale Porous Soft Tissue Implants That Encourage Vascularization and Tissue Ingrowth. Advanced Healthcare Materials, 2021, 10, e2100229.	7.6	14
29	Cholesterol crystals drive metabolic reprogramming and M1 macrophage polarisation in primary human macrophages. Atherosclerosis, 2022, 352, 35-45.	0.8	14
30	A flow bioreactor system compatible with real-time two-photon fluorescence lifetime imaging microscopy. Biomedical Materials (Bristol), 2018, 13, 024101.	3.3	13
31	Resident Macrophages and Their Potential in Cardiac Tissue Engineering. Tissue Engineering - Part B: Reviews, 2022, 28, 579-591.	4.8	12
32	An antibody fragment functionalized dendritic PEGylated poly(2-(dimethylamino)ethyl diacrylate) as a vehicle of exogenous microRNA. Drug Delivery and Translational Research, 2012, 2, 406-414.	5.8	10
33	Cardiomyocyte generation from somatic sources â€" current status and future directions. Current Opinion in Biotechnology, 2016, 40, 49-55.	6.6	10
34	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. , 2020, , 599-638.		9
35	Interference: an alteRNAtive therapy following acute myocardial infarction. Trends in Pharmacological Sciences, 2012, 33, 635-645.	8.7	8
36	A Deeper Insight into the Influence of the Electric Field Strength When Meltâ€Electrowriting on Nonâ€Planar Surfaces. Macromolecular Materials and Engineering, 2021, 306, 2100496.	3.6	8

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37	The Trypanosoma brucei-Derived Ketoacids, Indole Pyruvate and Hydroxyphenylpyruvate, Induce HO-1 Expression and Suppress Inflammatory Responses in Human Dendritic Cells. Antioxidants, 2022, 11, 164.	5.1	5
38	Beyond Chemistry: Tailoring Stiffness and Microarchitecture to Engineer Highly Sensitive Biphasic Elastomeric Piezoresistive Sensors. ACS Applied Materials & Interfaces, 2022, 14, 19265-19277.	8.0	5
39	Old Drugs, New Tricks â€“ Redefining Therapeutic Strategies For Tissue Regeneration. Advanced Drug Delivery Reviews, 2021, 173, 279-280.	13.7	3
40	Inside the Joint of Inflammatory Arthritis Patients: Handling and Processing of Synovial Tissue Biopsies for High Throughput Analysis. Frontiers in Medicine, 2022, 9, 830998.	2.6	2
41	1. Optical reprogramming and optical characterization of cells using femtosecond lasers. , 2015, , 159-178.		1
42	A phasor approach analysis of multiphoton FLIM measurements of three-dimensional cell culture models. Proceedings of SPIE, 2016, , .	0.8	1
43	Extrusion-Based Additive Manufacturing Techniques for Biomedical Applications. , 2021, , 1101-1111.		0
44	OP0028â€…CD206+CD163+ PATHOGENIC MACROPHAGES ENRICHED IN RHEUMATOID ARTHRITIS SYNOVIAL TISSUE WITH DISTINCT TRANSCRIPTIONAL SIGNATURES. Annals of the Rheumatic Diseases, 2021, 80, 15.1-15.	0.9	0
45	POS0007â€…LOSS OF BALANCE BETWEEN PROTECTIVE AND PRO-INFLAMMATORY SYNOVIAL TISSUE T CELL POLYFUNCTIONALITY PREDATES CLINICAL ONSET OF RHEUMATOID ARTHRITIS. Annals of the Rheumatic Diseases, 2021, 80, 205-206.	0.9	0
46	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. , 2020, , 1-41.		0