

Michael G Monaghan

List of Publications by Year in descending order

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46
papers

1,504
citations

304602

22
h-index

330025

37
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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. <i>Biomaterials</i> , 2010, 31, 8188-8197.	5.7	149
2	Cross-linked Collagen Hydrogel Matrix Resisting Contraction To Facilitate Full-Thickness Skin Equivalents. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20417-20425.	4.0	94
3	A Collagen-based Scaffold Delivering Exogenous MicroRNA-29B to Modulate Extracellular Matrix Remodeling. <i>Molecular Therapy</i> , 2014, 22, 786-796.	3.7	87
4	The rationale and emergence of electroconductive biomaterial scaffolds in cardiac tissue engineering. <i>APL Bioengineering</i> , 2019, 3, 041501.	3.3	84
5	RNA interference therapy via functionalized scaffolds. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 197-208.	6.6	76
6	A deeper understanding of intestinal organoid metabolism revealed by combining fluorescence lifetime imaging microscopy (FLIM) and extracellular flux analyses. <i>Redox Biology</i> , 2020, 30, 101420.	3.9	71
7	The Role of Macrophages in the Infarcted Myocardium: Orchestrators of ECM Remodeling. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 101.	1.1	70
8	Electroconductive Melt Electrowritten Patches Matching the Mechanical Anisotropy of Human Myocardium. <i>Advanced Functional Materials</i> , 2020, 30, 1909880.	7.8	67
9	PEDOT:PSS interfaces stabilised using a PEGylated crosslinker yield improved conductivity and biocompatibility. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4811-4820.	2.9	59
10	An injectable elastin-based gene delivery platform for dose-dependent modulation of angiogenesis and inflammation for critical limb ischemia. <i>Biomaterials</i> , 2015, 65, 126-139.	5.7	53
11	Applying phasor approach analysis of multiphoton FLIM measurements to probe the metabolic activity of three-dimensional in vitro cell culture models. <i>Scientific Reports</i> , 2017, 7, 42730.	1.6	52
12	An actuatable soft reservoir modulates host foreign body response. <i>Science Robotics</i> , 2019, 4, .	9.9	49
13	Electroactive material-based biosensors for detection and drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2021, 170, 396-424.	6.6	47
14	Impedance Spectroscopy for the Non-Destructive Evaluation of In Vitro Epidermal Models. <i>Pharmaceutical Research</i> , 2015, 32, 1845-1854.	1.7	45
15	Pathogenic, glycolytic PD-1+ B cells accumulate in the hypoxic RA joint. <i>JCI Insight</i> , 2020, 5, .	2.3	44
16	Preserved bioactivity and tunable release of a SDF1-GPVI bi-specific protein using photo-crosslinked PEGda hydrogels. <i>Biomaterials</i> , 2014, 35, 7180-7187.	5.7	42
17	Modulation of inflammation and angiogenesis and changes in ECM GAG-activity via dual delivery of nucleic acids. <i>Biomaterials</i> , 2015, 69, 133-147.	5.7	42
18	SARM1 deficiency promotes rod and cone photoreceptor cell survival in a model of retinal degeneration. <i>Life Science Alliance</i> , 2020, 3, e201900618.	1.3	42

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19	Exogenous miR-29B Delivery Through a Hyaluronan-Based Injectable System Yields Functional Maintenance of the Infarcted Myocardium. <i>Tissue Engineering - Part A</i> , 2018, 24, 57-67.	1.6	37
20	Non-invasive Chamber-Specific Identification of Cardiomyocytes in Differentiating Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2016, 6, 188-199.	2.3	26
21	Structural crystallisation of crosslinked 3D PEDOT:PSS anisotropic porous biomaterials to generate highly conductive platforms for tissue engineering applications. <i>Biomaterials Science</i> , 2021, 9, 4317-4328.	2.6	26
22	A spatiotemporal observation of EndMT and mesenchymal cell colonization at the onset of human cardiac valve development. <i>Development (Cambridge)</i> , 2015, 143, 473-82.	1.2	25
23	Enabling Multiphoton and Second Harmonic Generation Imaging in Paraffin-Embedded and Histologically Stained Sections. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 517-523.	1.1	24
24	A bioresorbable biomaterial carrier and passive stabilization device to improve heart function post-myocardial infarction. <i>Materials Science and Engineering C</i> , 2019, 103, 109751.	3.8	24
25	Intracellular label-free detection of mesenchymal stem cell metabolism within a perivascular niche-on-a-chip. <i>Lab on A Chip</i> , 2021, 21, 1395-1408.	3.1	22
26	Loss of balance between protective and pro-inflammatory synovial tissue T-cell polyfunctionality predates clinical onset of rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2022, 81, 193-205.	0.5	16
27	Distinct stromal and immune cell interactions shape the pathogenesis of rheumatoid and psoriatic arthritis. <i>Annals of the Rheumatic Diseases</i> , 2022, 81, 1224-1242.	0.5	15
28	Additive Manufacturing of Multi-scale Porous Soft Tissue Implants That Encourage Vascularization and Tissue Ingrowth. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100229.	3.9	14
29	Cholesterol crystals drive metabolic reprogramming and M1 macrophage polarisation in primary human macrophages. <i>Atherosclerosis</i> , 2022, 352, 35-45.	0.4	14
30	A flow bioreactor system compatible with real-time two-photon fluorescence lifetime imaging microscopy. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 024101.	1.7	13
31	Resident Macrophages and Their Potential in Cardiac Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 579-591.	2.5	12
32	An antibody fragment functionalized dendritic PEGylated poly(2-(dimethylamino)ethyl diacrylate) as a vehicle of exogenous microRNA. <i>Drug Delivery and Translational Research</i> , 2012, 2, 406-414.	3.0	10
33	Cardiomyocyte generation from somatic sources – current status and future directions. <i>Current Opinion in Biotechnology</i> , 2016, 40, 49-55.	3.3	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. <i>Trends in Pharmacological Sciences</i> , 2012, 33, 635-645.	4.0	8
36	A Deeper Insight into the Influence of the Electric Field Strength When Melt-electrowriting on Non-planar Surfaces. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100496.	1.7	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. <i>Antioxidants</i> , 2022, 11, 164.	2.2	5
38	Beyond Chemistry: Tailoring Stiffness and Microarchitecture to Engineer Highly Sensitive Biphasic Elastomeric Piezoresistive Sensors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19265-19277.	4.0	5
39	Old Drugs, New Tricks â€” Redefining Therapeutic Strategies For Tissue Regeneration. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 279-280.	6.6	3
40	Inside the Joint of Inflammatory Arthritis Patients: Handling and Processing of Synovial Tissue Biopsies for High Throughput Analysis. <i>Frontiers in Medicine</i> , 2022, 9, 830998.	1.2	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. <i>Proceedings of SPIE</i> , 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. <i>Annals of the Rheumatic Diseases</i> , 2021, 80, 15.1-15.	0.5	0
45	POS0007â€”LOSS OF BALANCE BETWEEN PROTECTIVE AND PRO-INFLAMMATORY SYNOVIAL TISSUE T CELL POLYFUNCTIONALITY PREDATES CLINICAL ONSET OF RHEUMATOID ARTHRITIS. <i>Annals of the Rheumatic Diseases</i> , 2021, 80, 205-206.	0.5	0
46	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. , 2020, , 1-41.		0