

Cathal John Kearney

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,877
citations

331259

21
h-index

276539

41
g-index

42
all docs

42
docs citations

42
times ranked

5349
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomaterial based modulation of macrophage polarization: a review and suggested design principles. <i>Materials Today</i> , 2015, 18, 313-325.	8.3	629
2	Ultrasound-triggered disruption and self-healing of reversibly cross-linked hydrogels for drug delivery and enhanced chemotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9762-9767.	3.3	372
3	Staphylococcal Osteomyelitis: Disease Progression, Treatment Challenges, and Future Directions. <i>Clinical Microbiology Reviews</i> , 2018, 31, .	5.7	270
4	Macroscale delivery systems for molecular and cellular payloads. <i>Nature Materials</i> , 2013, 12, 1004-1017.	13.3	251
5	Substance P Promotes Wound Healing in Diabetes by Modulating Inflammation and Macrophage Phenotype. <i>American Journal of Pathology</i> , 2015, 185, 1638-1648.	1.9	170
6	Collagen scaffolds functionalised with copper-eluting bioactive glass reduce infection and enhance osteogenesis and angiogenesis both in vitro and in vivo. <i>Biomaterials</i> , 2019, 197, 405-416.	5.7	146
7	Refilling drug delivery depots through the blood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12722-12727.	3.3	84
8	Electroconductive Biohybrid Collagen/Pristine Graphene Composite Biomaterials with Enhanced Biological Activity. <i>Advanced Materials</i> , 2018, 30, e1706442.	11.1	81
9	Sustained Delivery of VEGF Maintains Innervation and Promotes Reperfusion in Ischemic Skeletal Muscles Via NGF/GDNF Signaling. <i>Molecular Therapy</i> , 2014, 22, 1243-1253.	3.7	77
10	Three-Dimensional Human Tissue Models That Incorporate Diabetic Foot Ulcer-Derived Fibroblasts Mimic <i>In Vivo</i> Features of Chronic Wounds. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 499-508.	1.1	69
11	Macrophage Polarization in Response to Collagen Scaffold Stiffness Is Dependent on Cross-Linking Agent Used To Modulate the Stiffness. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 544-552.	2.6	60
12	Nanoscale Anisotropic Plastic Deformation in Single Crystal Aragonite. <i>Physical Review Letters</i> , 2006, 96, 255505.	2.9	58
13	DNA Origami: Folded DNA Nanodevices That Can Direct and Interpret Cell Behavior. <i>Advanced Materials</i> , 2016, 28, 5509-5524.	11.1	54
14	Clinical Application of Extracorporeal Shock Wave Therapy in Orthopedics: Focused versus Unfocused Shock Waves. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 1673-1680.	0.7	53
15	Functionalising Collagen-Based Scaffolds With Platelet-Rich Plasma for Enhanced Skin Wound Healing Potential. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 371.	2.0	53
16	Switchable Release of Entrapped Nanoparticles from Alginate Hydrogels. <i>Advanced Healthcare Materials</i> , 2015, 4, 1634-1639.	3.9	50
17	Sequential release of nanoparticle payloads from ultrasonically burstable capsules. <i>Biomaterials</i> , 2016, 75, 91-101.	5.7	45
18	Infrapatellar Fat Pad Stem Cells: From Developmental Biology to Cell Therapy. <i>Stem Cells International</i> , 2017, 2017, 1-10.	1.2	34

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19	Extracorporeal shockwave-induced expression of lubricin in tendons and septa. <i>Cell and Tissue Research</i> , 2011, 346, 255-262.	1.5	32
20	Physical Structuring of Injectable Polymeric Systems to Controllably Deliver Nanosized Extracellular Vesicles. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801604.	3.9	27
21	The Use of Extracorporeal Shock Wave-Stimulated Periosteal Cells for Orthotopic Bone Generation. <i>Tissue Engineering - Part A</i> , 2012, 18, 1500-1508.	1.6	23
22	Development of wound healing scaffolds with precisely-triggered sequential release of therapeutic nanoparticles. <i>Biomaterials Science</i> , 2021, 9, 4278-4288.	2.6	22
23	Direct UV-Triggered Thiol-ene Cross-Linking of Electrospun Polyester Fibers from Unsaturated Poly(macrolactone)s and Their Drug Loading by Solvent Swelling. <i>Biomacromolecules</i> , 2017, 18, 4292-4298.	2.6	21
24	Therapeutics on the clock: Circadian medicine in the treatment of chronic inflammatory diseases. <i>Biochemical Pharmacology</i> , 2020, 182, 114254.	2.0	21
25	Scaffolds Functionalized with Matrix from Induced Pluripotent Stem Cell Fibroblasts for Diabetic Wound Healing. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000307.	3.9	19
26	Synthesis of bilayer films from regenerated cellulose nanofibers and poly(globalide) for skin tissue engineering applications. <i>Carbohydrate Polymers</i> , 2021, 252, 117201.	5.1	19
27	The Use of Genipin as an Effective, Biocompatible, Anti-inflammatory Cross-linking Method for Nerve Guidance Conduits. <i>Advanced Biology</i> , 2020, 4, e1900212.	3.0	18
28	Extracorporeal shock wave-induced proliferation of periosteal cells. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1536-1543.	1.2	17
29	The economic impact of pressure ulcers among patients in intensive care units. A systematic review. <i>Journal of Tissue Viability</i> , 2021, 30, 168-177.	0.9	17
30	Optimization of extracellular matrix production from human induced pluripotent stem cell-derived fibroblasts for scaffold fabrication for application in wound healing. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1803-1811.	2.1	15
31	Hydroxyapatite sonosensitization of ultrasound-triggered, thermally responsive hydrogels: An on-demand delivery system for bone repair applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 1622-1633.	1.6	13
32	Platelet-derived growth factor stabilises vascularisation in collagen-glycosaminoglycan scaffolds <i>in vitro</i> . <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 261-273.	1.3	11
33	Polyesters with main and side chain phosphoesters as structural motives for biocompatible electrospun fibres. <i>Polymer Chemistry</i> , 2020, 11, 2157-2165.	1.9	11
34	Antimicrobial and degradable triazolinedione (TAD) crosslinked polypeptide hydrogels. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5456-5464.	2.9	10
35	Versatility of unsaturated polyesters from electrospun macrolactones: RGD immobilization to increase cell attachment. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 257-265.	2.1	7
36	Effects of vasopressor agents on the development of pressure ulcers in critically ill patients: a systematic review. <i>Journal of Wound Care</i> , 2022, 31, 266-277.	0.5	7

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37	Development of magnetically active scaffolds as intrinsically-deformable bioreactors. MRS Communications, 2017, 7, 367-374.	0.8	3
38	The lubricating effect of iPS-reprogrammed fibroblasts on collagen-GAG scaffolds for cartilage repair applications. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 114, 104174.	1.5	3
39	The Development of Tissue Engineering Scaffolds Using Matrix from iPS-Reprogrammed Fibroblasts. Methods in Molecular Biology, 2021, , 273-283.	0.4	2
40	Special Collection: Closing the Gaps in Skin Wound Healing. Tissue Engineering - Part A, 2016, 22, 401-402.	1.6	1