

# Cathal D O'connell

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,707  
citations

346980

22  
h-index

371746

37  
g-index

37  
all docs

37  
docs citations

37  
times ranked

2618  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of Native Human Articular Cartilage: A Biomechanical Protocol. <i>Cartilage</i> , 2021, 13, 427S-437S.	1.4	24
2	FLASH: Fluorescently Labeled Sensitive Hydrogel to monitor bioscaffolds degradation during neocartilage generation. <i>Biomaterials</i> , 2021, 264, 120383.	5.7	32
3	Formation of alginate microspheres prepared by optimized microfluidics parameters for high encapsulation of bioactive molecules. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 240-251.	5.0	25
4	Shining a light on the hidden structure of gelatin methacryloyl bioinks using small-angle X-ray scattering (SAXS). <i>Materials Chemistry Frontiers</i> , 2021, 5, 8025-8036.	3.2	5
5	Characterization of Polycaprolactone Nanohydroxyapatite Composites with Tunable Degradability Suitable for Indirect Printing. <i>Polymers</i> , 2021, 13, 295.	2.0	22
6	Enhanced Electroactivity, Mechanical Properties, and Printability through the Addition of Graphene Oxide to Photo-Cross-linkable Gelatin Methacryloyl Hydrogel. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2279-2295.	2.6	29
7	Printing between the Lines: Intricate Biomaterial Structures Fabricated via Negative Embodied Sacrificial Template 3D (NEST3D) Printing. <i>Advanced Materials Technologies</i> , 2021, 6, 2100189.	3.0	14
8	Electrostatic Distortion of Melt-Electrowritten Patterns by 3D Objects: Quantification, Modeling, and Toolpath Correction. <i>Advanced Materials Technologies</i> , 2021, 6, 2100345.	3.0	13
9	Towards bioengineered skeletal muscle: recent developments in vitro and in vivo. <i>Essays in Biochemistry</i> , 2021, 65, 555-567.	2.1	4
10	Advances in biofabrication techniques towards functional bioprinted heterogeneous engineered tissues: A comprehensive review. <i>Bioprinting</i> , 2021, 23, e00147.	2.9	35
11	Matured Myofibers in Bioprinted Constructs with In Vivo Vascularization and Innervation. <i>Gels</i> , 2021, 7, 171.	2.1	9
12	Microbial Transglutaminase Improves ex vivo Adhesion of Gelatin Methacryloyl Hydrogels to Human Cartilage. <i>Frontiers in Medical Technology</i> , 2021, 3, 773673.	1.3	10
13	Gelatin Methacryloyl Hydrogels for the Localized Delivery of Cefazolin. <i>Polymers</i> , 2021, 13, 3960.	2.0	12
14	3D Printed Multiphasic Scaffolds for Osteochondral Repair: Challenges and Opportunities. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12420.	1.8	18
15	Human articular cartilage repair: Sources and detection of cytotoxicity and genotoxicity in photo-crosslinkable hydrogel bioscaffolds. <i>Stem Cells Translational Medicine</i> , 2020, 9, 302-315.	1.6	45
16	Free-form co-axial bioprinting of a gelatin methacryloyl bio-ink by direct in situ photo-crosslinking during extrusion. <i>Bioprinting</i> , 2020, 19, e00087.	2.9	24
17	Characterizing Bioinks for Extrusion Bioprinting: Printability and Rheology. <i>Methods in Molecular Biology</i> , 2020, 2140, 111-133.	0.4	32
18	Layer-By-Layer: The Case for 3D Bioprinting Neurons to Create Patient-Specific Epilepsy Models. <i>Materials</i> , 2019, 12, 3218.	1.3	32

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19	Evaluation of sterilisation methods for bio-ink components: gelatin, gelatin methacryloyl, hyaluronic acid and hyaluronic acid methacryloyl. <i>Biofabrication</i> , 2019, 11, 035003.	3.7	44
20	Controlled release from PCL-alginate microspheres via secondary encapsulation using GelMA/HAMA hydrogel scaffolds. <i>Soft Matter</i> , 2019, 15, 3779-3787.	1.2	17
21	Protocols for Culturing and Imaging a Human Ex Vivo Osteochondral Model for Cartilage Biomanufacturing Applications. <i>Materials</i> , 2019, 12, 640.	1.3	14
22	Tailoring the mechanical properties of gelatin methacryloyl hydrogels through manipulation of the photocrosslinking conditions. <i>Soft Matter</i> , 2018, 14, 2142-2151.	1.2	123
23	Print Me an Organ? Ethical and Regulatory Issues Emerging from 3D Bioprinting in Medicine. <i>Science and Engineering Ethics</i> , 2018, 24, 73-91.	1.7	105
24	In situ handheld three-dimensional bioprinting for cartilage regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 611-621.	1.3	232
25	Three-dimensional neural cultures produce networks that mimic native brain activity. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 490-493.	1.3	29
26	Enthusiastic portrayal of 3D bioprinting in the media: Ethical side effects. <i>Bioethics</i> , 2018, 32, 94-102.	0.7	19
27	Biofabrication of human articular cartilage: a path towards the development of a clinical treatment. <i>Biofabrication</i> , 2018, 10, 045006.	3.7	71
28	Handheld Co-Axial Bioprinting: Application to in situ surgical cartilage repair. <i>Scientific Reports</i> , 2017, 7, 5837.	1.6	160
29	Development of the Biopen: a handheld device for surgical printing of adipose stem cells at a chondral wound site. <i>Biofabrication</i> , 2016, 8, 015019.	3.7	186
30	Nano-bioelectronics via dip-pen nanolithography. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6431-6444.	2.7	23
31	Inertial imaging with nanomechanical systems. <i>Nature Nanotechnology</i> , 2015, 10, 339-344.	15.6	141
32	Liquid Ink Deposition from an Atomic Force Microscope Tip: Deposition Monitoring and Control of Feature Size. <i>Langmuir</i> , 2014, 30, 2712-2721.	1.6	46
33	Ink-Probe Hydrodynamics in Atomic Force Microscope Deposition of Liquid Inks. <i>Small</i> , 2014, 10, 3717-3728.	5.2	22
34	Synthesis and optimization of PEDOT:PSS based ink for printing nanoarrays using Dip-Pen Nanolithography. <i>Synthetic Metals</i> , 2013, 181, 64-71.	2.1	9
35	Nanoscale platinum printing on insulating substrates. <i>Nanotechnology</i> , 2013, 24, 505301.	1.3	8
36	Vapor Phase Polymerization of EDOT from Submicrometer Scale Oxidant Patterned by Dip-Pen Nanolithography. <i>Langmuir</i> , 2012, 28, 9953-9960.	1.6	28

#	ARTICLE	IF	CITATIONS
37	Liquid Deposition Patterning of Conducting Polymer Ink onto Hard and Soft Flexible Substrates via Dip-Pen Nanolithography. Langmuir, 2012, 28, 804-811.	1.6	45