

Michele Marcolongo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3025670/publications.pdf>

Version: 2024-02-01

42
papers

1,462
citations

394421

19
h-index

345221

36
g-index

42
all docs

42
docs citations

42
times ranked

1552
citing authors

#	ARTICLE	IF	CITATIONS
1	Painful temporomandibular joint overloading induces structural remodeling in the pericellular matrix of that joint's chondrocytes. <i>Journal of Orthopaedic Research</i> , 2022, 40, 348-358.	2.3	5
2	MC3T3 E1 cell response to mineralized nanofiber shish kebab structures. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 1601-1610.	3.4	2
3	A Cross University-Led COVID-19 Rapid-Response Effort: Design, Build, and Distribute Drexel AJFlex Face Shields. <i>Annals of Biomedical Engineering</i> , 2021, 49, 950-958.	2.5	6
4	Biomimetic Mineralization of Hierarchical Nanofiber Shish-Kebabs in a Concentrated Apatite-Forming Solution. <i>ACS Applied Bio Materials</i> , 2021, 4, 571-580.	4.6	9
5	Does annealing improve the interlayer adhesion and structural integrity of FFF 3D printed PEEK lumbar spinal cages?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103455.	3.1	78
6	Size-dependent soft epitaxial crystallization in the formation of blend nanofiber shish kebabs. <i>Polymer</i> , 2020, 202, 122644.	3.8	8
7	New materials for hip and knee joint replacement: What's hip and what's in kneed?. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1436-1444.	2.3	25
8	Biomimetic proteoglycans diffuse throughout articular cartilage and localize within the pericellular matrix. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1977-1987.	4.0	10
9	The regulatory effects of proteoglycans on collagen fibrillogenesis and morphology investigated using biomimetic proteoglycans. <i>Journal of Structural Biology</i> , 2019, 206, 204-215.	2.8	13
10	Electrospun poly(ϵ -caprolactone) nanofiber shish kebabs mimic mineralized bony surface features. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1141-1149.	3.4	15
11	Aggrecan-like biomimetic proteoglycans (BPGs) composed of natural chondroitin sulfate bristles grafted onto a poly(acrylic acid) core for molecular engineering of the extracellular matrix. <i>Acta Biomaterialia</i> , 2018, 75, 93-104.	8.3	24
12	A Review of Nanofiber Shish Kebabs and Their Potential in Creating Effective Biomimetic Bone Scaffolds. <i>Regenerative Engineering and Translational Medicine</i> , 2018, 4, 107-119.	2.9	13
13	Structure-property relationships for 3D-printed PEEK intervertebral lumbar cages produced using fused filament fabrication. <i>Journal of Materials Research</i> , 2018, 33, 2040-2051.	2.6	72
14	Hierarchically ordered polymer nanofiber shish kebabs as a bone scaffold material. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1786-1798.	4.0	33
15	Flame time of a cigarette lighter to achieve temperature capable of inflicting a burn. <i>Burns</i> , 2017, 43, 1227-1232.	1.9	3
16	Synthesis of macromolecular mimics of small leucine-rich proteoglycans with a poly(ethylene glycol) core and chondroitin sulphate bristles. <i>Carbohydrate Polymers</i> , 2017, 166, 338-347.	10.2	10
17	The Science Behind Surgical Innovations of the Forefoot. <i>Foot and Ankle Clinics</i> , 2016, 21, 903-908.	1.3	1
18	The Science Behind Wear Testing for Great Toe Implants for Hallux Rigidus. <i>Foot and Ankle Clinics</i> , 2016, 21, 891-902.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Double and zero quantum filtered ² H NMR analysis of D ₂ O in intervertebral disc tissue. <i>Journal of Magnetic Resonance</i> , 2015, 258, 6-11.	2.1	4
20	Nucleus Implantation: The Biomechanics of Augmentation Versus Replacement With Varying Degrees of Nucleotomy. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 051001.	1.3	17
21	Role of biomolecules on annulus fibrosus micromechanics: Effect of enzymatic digestion on elastic and failure properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 40, 75-84.	3.1	31
22	Injection of a Novel Biomimetic Aggrecan for the Restoration of Intervertebral Disc Tissue Mechanics. , 2013, , .		0
23	Terminal-end functionalization of chondroitin sulfate for the synthesis of biomimetic proteoglycans. <i>Carbohydrate Polymers</i> , 2012, 90, 431-440.	10.2	27
24	Advances in Biomaterials for the Treatment of Intervertebral Disc Degeneration. <i>Journal of Long-Term Effects of Medical Implants</i> , 2012, 22, 73-84.	0.7	4
25	Effects of aging and degeneration on the human intervertebral disc during the diurnal cycle: A finite element study. <i>Journal of Orthopaedic Research</i> , 2012, 30, 122-128.	2.3	40
26	Advances in Biomaterials for Clinical Orthopaedic Applications. , 2012, , 561-582.		0
27	Fill of the Nucleus Cavity Affects Mechanical Stability in Compression, Bending, and Torsion of a Spine Segment, Which Has Undergone Nucleus Replacement. <i>Spine</i> , 2010, 35, 1128-1135.	2.0	18
28	Synthesis and recovery characteristics of branched and grafted PNIPAA-PEG hydrogels for the development of an injectable load-bearing nucleus pulposus replacement. <i>Acta Biomaterialia</i> , 2010, 6, 1319-1328.	8.3	43
29	The effect of nucleus implant parameters on the compressive mechanics of the lumbar intervertebral disc: A finite element study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 90B, 596-607.	3.4	19
30	The role of the nucleus pulposus in neutral zone human lumbar intervertebral disc mechanics. <i>Journal of Biomechanics</i> , 2008, 41, 2104-2111.	2.1	55
31	Friction and wear behavior of poly(vinyl alcohol)/poly(vinyl pyrrolidone) hydrogels for articular cartilage replacement. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 471-479.	4.0	90
32	<i>In situ</i> apatite forming injectable hydrogel. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 249-256.	4.0	16
33	Synthesis and Characterization of an Injectable Hydrogel with Tunable Mechanical Properties for Soft Tissue Repair. <i>Biomacromolecules</i> , 2006, 7, 3223-3228.	5.4	60
34	Functional compressive mechanics of a PVA/PVP nucleus pulposus replacement. <i>Biomaterials</i> , 2006, 27, 176-184.	11.4	163
35	Effect of coupling agents on the local mechanical properties of bioactive dental composites by the nano-indentation technique. <i>Dental Materials</i> , 2005, 21, 656-664.	3.5	36
36	Nucleus Implant Parameters Significantly Change the Compressive Stiffness of the Human Lumbar Intervertebral Disc. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 536-540.	1.3	29

#	ARTICLE	IF	CITATIONS
37	The effect of protein-free versus protein-containing medium on the mechanical properties and uptake of ions of PVA/PVP hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 489-503.	3.5	29
38	The effect of dehydration history on PVA/PVP hydrogels for nucleus pulposus replacement. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 69B, 135-140.	3.1	51
39	Novel associated hydrogels for nucleus pulposus replacement. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 67A, 1329-1337.	4.0	134
40	Degradation of mechanical properties of UHMWPE acetabular liners following long-term implantation. <i>Journal of Arthroplasty</i> , 2003, 18, 68-78.	3.1	140
41	Bioactive glass fiber/polymeric composites bond to bone tissue. , 1998, 39, 161-170.		76
42	Surface reaction layer formation in vitro on a bioactive glass fiber/polymeric composite. , 1997, 37, 440-448.		47