Claudia Di Bella

List of Publications by Year
in descending order

59 papers	2,561 citations	201385 27 h-index	197535 49 g-index
59 all docs	59 docs citations	59 times ranked	3298 citing authors

#	Article	IF	Citations
1	In situ handheld threeâ€dimensional bioprinting for cartilage regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 611-621.	1.3	232
2	Development of the Biopen: a handheld device for surgical printing of adipose stem cells at a chondral wound site. Biofabrication, 2016, 8, 015019.	3.7	186
3	Handheld Co-Axial Bioprinting: Application to in situ surgical cartilage repair. Scientific Reports, 2017, 7, 5837.	1.6	160
4	Tailoring the mechanical properties of gelatin methacryloyl hydrogels through manipulation of the photocrosslinking conditions. Soft Matter, 2018, 14, 2142-2151.	1.2	123
5	Surgical treatment and outcome of conventional pelvic chondrosarcoma. Journal of Bone and Joint Surgery: British Volume, 2005, 87-B, 1527-1530.	3.4	118
6	Stromal Stem Cells and Platelet-Rich Plasma Improve Bone Allograft Integration. Clinical Orthopaedics and Related Research, 2005, &NA;, 62-68.	0.7	113
7	Bone Regeneration in a Rabbit Critical-Sized Skull Defect Using Autologous Adipose-Derived Cells. Tissue Engineering - Part A, 2008, 14, 483-490.	1.6	101
8	Allograft-Prosthetic Composite in the Proximal Tibia After Bone Tumor Resection. Clinical Orthopaedics and Related Research, 2008, 466, 459-465.	0.7	94
9	The Posterior Iliac Crest Outperforms the Anterior Iliac Crest When Obtaining Mesenchymal Stem Cells from Bone Marrow. Journal of Bone and Joint Surgery - Series A, 2013, 95, 1101-1107.	1.4	84
10	3D Bioprinting of Cartilage for Orthopedic Surgeons: Reading between the Lines. Frontiers in Surgery, 2015, 2, 39.	0.6	84
11	Biofabrication of human articular cartilage: a path towards the development of a clinical treatment. Biofabrication, 2018, 10, 045006.	3.7	71
12	Surgical Treatment of Grade I Central Chondrosarcoma. Clinical Orthopaedics and Related Research, 2010, 468, 581-589.	0.7	70
13	Cartilage Tissue Engineering Using Stem Cells and Bioprinting Technologyâ€"Barriers to Clinical Translation. Frontiers in Surgery, 2018, 5, 70.	0.6	67
14	Adult osteomyelitis: debridement versus debridement plus Osteoset T pellets. Acta Orthopaedica Belgica, 2007, 73, 238-43.	0.1	63
15	Clear cell chondrosarcoma of bone: long time follow-up of 18 cases. Archives of Orthopaedic and Trauma Surgery, 2008, 128, 137-142.	1.3	60
16	18F-FDG PET response to neoadjuvant chemotherapy for Ewing sarcoma and osteosarcoma are different. Skeletal Radiology, 2011, 40, 1007-1015.	1.2	60
17	Local and distant control in non-metastatic pelvic Ewing's sarcoma patients. Journal of Surgical Oncology, 2007, 96, 19-25.	0.8	55
18	Injection of Demineralized Bone Matrix With Bone Marrow Concentrate Improves Healing in Unicameral Bone Cyst. Clinical Orthopaedics and Related Research, 2010, 468, 3047-3055.	0.7	52

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19	Alloprosthetic Composite is a Suitable Reconstruction After Periacetabular Tumor Resection. Clinical Orthopaedics and Related Research, 2011, 469, 1450-1458.	0.7	50
20	Adipose-Derived Mesenchymal Stem Cells in the Use of Cartilage Tissue Engineering: The Need for a Rapid Isolation Procedure. Stem Cells International, 2018, 2018, 1-9.	1.2	47
21	Human articular cartilage repair: Sources and detection of cytotoxicity and genotoxicity in photo-crosslinkable hydrogel bioscaffolds. Stem Cells Translational Medicine, 2020, 9, 302-315.	1.6	45
22	Evaluation of sterilisation methods for bio-ink components: gelatin, gelatin methacryloyl, hyaluronic acid and hyaluronic acid methacryloyl. Biofabrication, 2019, 11, 035003.	3.7	44
23	Functional Reconstruction of Sarcoma Defects Utilising Innervated Free Flaps. Sarcoma, 2012, 2012, 1-8.	0.7	41
24	Efficient isolation and enrichment of mesenchymal stem cells from bone marrow. Cytotherapy, 2012, 14, 686-693.	0.3	34
25	The osteochondral dilemma: review of current management and future trends. ANZ Journal of Surgery, 2014, 84, 211-217.	0.3	33
26	FLASH: Fluorescently LAbelled Sensitive Hydrogel to monitor bioscaffolds degradation during neocartilage generation. Biomaterials, 2021, 264, 120383.	5.7	32
27	Bioengineering of articular cartilage: past, present and future. Regenerative Medicine, 2013, 8, 333-349.	0.8	30
28	Differentiation of Stem Cells from Human Infrapatellar Fat Pad: Characterization of Cells Undergoing Chondrogenesis. Tissue Engineering - Part A, 2014, 20, 2213-2223.	1.6	29
29	Mesenchymal stem cells and platelet lysate in fibrin or collagen scaffold promote nonâ€cemented hip prosthesis integration. Journal of Orthopaedic Research, 2011, 29, 961-968.	1.2	27
30	Formation of alginate microspheres prepared by optimized microfluidics parameters for high encapsulation of bioactive molecules. Journal of Colloid and Interface Science, 2021, 587, 240-251.	5.0	25
31	The Challenge of Cartilage Integration: Understanding a Major Barrier to Chondral Repair. Tissue Engineering - Part B: Reviews, 2022, 28, 114-128.	2.5	25
32	Assessment of Native Human Articular Cartilage: A Biomechanical Protocol. Cartilage, 2021, 13, 427S-437S.	1.4	24
33	Free-form co-axial bioprinting of a gelatin methacryloyl bio-ink by direct in situ photo-crosslinking during extrusion. Bioprinting, 2020, 19, e00087.	2.9	24
34	Characterization of Polycaprolactone Nanohydroxyapatite Composites with Tunable Degradability Suitable for Indirect Printing. Polymers, 2021, 13, 295.	2.0	22
35	The use of massive bone allografts in bone tumour surgery of the limb. Orthopaedics and Trauma, 2005, 19, 393-399.	0.3	20
36	Osteogenic Protein-1 Associated with Mesenchymal Stem Cells Promote Bone Allograft Integration. Tissue Engineering - Part A, 2010, 16, 2967-2976.	1.6	20

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37	Tail of Superficial Myxofibrosarcoma and Undifferentiated Pleomorphic Sarcoma After Preoperative Radiotherapy. Anticancer Research, 2016, 36, 2339-44.	0.5	20
38	3D Printed Multiphasic Scaffolds for Osteochondral Repair: Challenges and Opportunities. International Journal of Molecular Sciences, 2021, 22, 12420.	1.8	18
39	Biopsy and the diagnostic evaluation of musculoskeletal tumours: critical but often missed in the 21st century. ANZ Journal of Surgery, 2016, 86, 133-138.	0.3	17
40	Protocols for Culturing and Imaging a Human Ex Vivo Osteochondral Model for Cartilage Biomanufacturing Applications. Materials, 2019, 12, 640.	1.3	14
41	Creating In Vitro Three-Dimensional Tumor Models: A Guide for the Biofabrication of a Primary Osteosarcoma Model. Tissue Engineering - Part B: Reviews, 2021, 27, 514-529.	2.5	14
42	Printing between the Lines: Intricate Biomaterial Structures Fabricated via Negative Embodied Sacrificial Template 3D (NEST3D) Printing. Advanced Materials Technologies, 2021, 6, 2100189.	3.0	14
43	Electrostatic Distortion of Meltâ€Electrowritten Patterns by 3D Objects: Quantification, Modeling, and Toolpath Correction. Advanced Materials Technologies, 2021, 6, 2100345.	3.0	13
44	Bioprinting Stem Cells in Hydrogel for In Situ Surgical Application: A Case for Articular Cartilage. Methods in Molecular Biology, 2020, 2140, 145-157.	0.4	12
45	Human Stem Cell Based Tissue Engineering for In Vivo Cartilage Repair: A Systematic Review. Tissue Engineering - Part B: Reviews, 2021, 27, 74-93.	2.5	10
46	Microbial Transglutaminase Improves ex vivo Adhesion of Gelatin Methacryloyl Hydrogels to Human Cartilage. Frontiers in Medical Technology, 2021, 3, 773673.	1.3	10
47	In vivo biocompatibility of porous and non-porous polypyrrole based trilayered actuators. Journal of Materials Science: Materials in Medicine, 2017, 28, 172.	1.7	9
48	A rapid method for obtaining mesenchymal stem cells and platelets from bone marrow aspirate. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 483-492.	1.3	7
49	Historical review of bone prefabrication. La Chirurgia Degli Organi Di Movimento, 2008, 92, 73-78.	0.2	6
50	Fractured osteochondroma presenting with popliteal pseudoaneurysm: Case report and review of literature. Journal of Vascular Surgery Cases and Innovative Techniques, 2020, 6, 96-100.	0.3	6
51	The role of Thallium-201 scintigraphy and Tc-99m pentavalent dimercaptosuccinic acid in diagnosis and grading of chondrosarcoma. European Journal of Radiology, 2020, 125, 108846.	1.2	6
52	Microencapsulation of growth factors by microfluidic system. MethodsX, 2021, 8, 101324.	0.7	5
53	Standardised quantitative ultrasound imaging approach for the contact-less three-dimensional analysis of neocartilage formation in hydrogel-based bioscaffolds. Acta Biomaterialia, 2022, 147, 129-146.	4.1	5
54	Planned combined onco-plastic (COP) surgical approach improves oncologic outcomes in soft tissue sarcomas. European Journal of Surgical Oncology, 2021, 47, 443-449.	0.5	4

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55	Molecular Pathogenesis of Sporadic Desmoid Tumours and Its Implications for Novel Therapies: A Systematised Narrative Review. Targeted Oncology, 2022, 17, 223-252.	1.7	3
56	The use of fluoride cement: preliminary experimental study and clinical application. La Chirurgia Degli Organi Di Movimento, 2008, 91, 141-146.	0.2	2
57	Response to Re: The osteochondral dilemma: review of current management and future trends. ANZ Journal of Surgery, 2014, 84, 696-696.	0.3	1
58	Highlights of the 2019 Annual Academic Surgery Conference. ANZ Journal of Surgery, 2020, 90, 200-201.	0.3	0
59	The Importance of Margins in Sarcoma Surgery. , 2021, , 213-222.		0