Gianluca Giavaresi

List of Publications by Year
in descending order

276	11,374	26630	45317
papers	citations	56 h-index	90 g-index

281	281	281	12945
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coupled plasma filtration-adsorption in a rabbit model of endotoxic shock. Critical Care Medicine, 2000, 28, 1526-1533.	0.9	358
2	Chordoma of the Mobile Spine: Fifty Years of Experience. Spine, 2006, 31, 493-503.	2.0	358
3	Interleukin 3- receptor targeted exosomes inhibit in vitro and in vivo Chronic Myelogenous Leukemia cell growth. Theranostics, 2017, 7, 1333-1345.	10.0	266
4	Stimulatory effect on bone formation exerted by a modified chitosan. Biomaterials, 1994, 15, 1075-1081.	11.4	259
5	The healing of confined critical size cancellous defects in the presence of silk fibroin hydrogel. Biomaterials, 2005, 26, 3527-3536.	11.4	258
6	Transplantation of chondrocytes seeded on a hyaluronan derivative (HyaffÂ®-11) into cartilage defects in rabbits. Biomaterials, 2001, 22, 2417-2424.	11.4	255
7	Peri-implant osteogenesis in health and osteoporosis. Micron, 2005, 36, 630-644.	2.2	244
8	Orderly osteochondral regeneration in a sheep model using a novel nanoâ€composite multilayered biomaterial. Journal of Orthopaedic Research, 2010, 28, 116-124.	2.3	177
9	In vitro and in vivo behaviour of Ca- and P-enriched anodized titanium. Biomaterials, 1999, 20, 1587-1594.	11.4	173
10	Crimp morphology in relaxed and stretched rat Achilles tendon. Journal of Anatomy, 2007, 210, 1-7.	1.5	167
11	Ultrasound-Guided Injection of Platelet-Rich Plasma and Hyaluronic Acid, Separately and in Combination, for Hip Osteoarthritis. American Journal of Sports Medicine, 2016, 44, 664-671.	4.2	155
12	In vivo study on the healing of bone defects treated with bone marrow stromal cells, plateletâ€rich plasma, and freezeâ€dried bone allografts, alone and in combination. Journal of Orthopaedic Research, 2006, 24, 877-888.	2.3	153
13	Involvement of multiple myeloma cell-derived exosomes in osteoclast differentiation. Oncotarget, 2015, 6, 13772-13789.	1.8	147
14	Proximal Femur Geometry To Detect and Distinguish Femoral Neck Fractures from Trochanteric Fractures in Postmenopausal Women. Osteoporosis International, 2002, 13, 69-73.	3.1	139
15	Intrinsically superparamagnetic Fe-hydroxyapatite nanoparticles positively influence osteoblast-like cell behaviour. Journal of Nanobiotechnology, 2012, 10, 32.	9.1	138
16	Clinical Use of Bone Marrow, Bone Marrow Concentrate, and Expanded Bone Marrow Mesenchymal Stem Cells in Cartilage Disease. Stem Cells and Development, 2013, 22, 181-192.	2.1	128
17	Osteoarthritis Treated with Mesenchymal Stem Cells on Hyaluronan-Based Scaffold in Rabbit. Tissue Engineering - Part C: Methods, 2009, 15, 647-658.	2.1	127
18	Tailoring Biomaterial Compatibility: In Vivo Tissue Response versus in Vitro Cell Behavior. International Journal of Artificial Organs, 2003, 26, 1077-1085.	1.4	122

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19	Platelet autologous growth factors decrease the osteochondral regeneration capability of a collagen-hydroxyapatite scaffold in a sheep model. BMC Musculoskeletal Disorders, 2010, 11, 220.	1.9	120
20	Mechanical and histomorphometric evaluations of titanium implants with different surface treatments inserted in sheep cortical bone. Biomaterials, 2003, 24, 1583-1594.	11.4	116
21	Stromal Stem Cells and Platelet-Rich Plasma Improve Bone Allograft Integration. Clinical Orthopaedics and Related Research, 2005, &NA;, 62-68.	1.5	113
22	A new austenitic stainless steel with negligible nickel content: an in vitro and in vivo comparative investigation. Biomaterials, 2003, 24, 4929-4939.	11.4	110
23	Osteoporosis and biomaterial osteointegration. Biomedicine and Pharmacotherapy, 2004, 58, 487-493.	5.6	110
24	Metastatic breast cancer: anÂupdating. Biomedicine and Pharmacotherapy, 2006, 60, 548-556.	5.6	102
25	Biological fixation of endosseous implants. Micron, 2005, 36, 665-671.	2.2	101
26	Tissue Engineering for Total Meniscal Substitution: Animal Study in Sheep Modelâ€"Results at 12 Months. Tissue Engineering - Part A, 2012, 18, 1573-1582.	3.1	99
27	A bone substitute composed of polymethylmethacrylate and Î±-tricalcium phosphate: results in terms of osteoblast function and bone tissue formation. Biomaterials, 2002, 23, 4523-4531.	11.4	97
28	Early detachment of titanium particles from various different surfaces of endosseous dental implants. Biomaterials, 2004, 25, 2239-2246.	11.4	97
29	Magnetic Hydroxyapatite Bone Substitutes to Enhance Tissue Regeneration: Evaluation In Vitro Using Osteoblast-Like Cells and In Vivo in a Bone Defect. PLoS ONE, 2012, 7, e38710.	2.5	96
30	Physical characterization of different-roughness titanium surfaces, with and without hydroxyapatite coating, and their effect on human osteoblast-like cells. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 75B, 359-368.	3.4	90
31	Pulsed electromagnetic fields reduce knee osteoarthritic lesion progression in the aged Dunkin Hartley guinea pig. Journal of Orthopaedic Research, 2005, 23, 899-908.	2.3	84
32	Effects of pulsed electromagnetic fields on articular hyaline cartilage: review of experimental and clinical studies. Biomedicine and Pharmacotherapy, 2005, 59, 388-394.	5.6	84
33	Laser Stimulation on Bone Defect Healing: An In Vitro Study. Lasers in Medical Science, 2002, 17, 216-220.	2.1	83
34	Osteogenesis of large segmental radius defects enhanced by basic fibroblast growth factor activated bone marrow stromal cells grown on non-woven hyaluronic acid-based polymer scaffold. Biomaterials, 2002, 23, 1043-1051.	11.4	83
35	The response of bone to nanocrystalline hydroxyapatite-coated Ti13Nb11Zr alloy in an animal model. Biomaterials, 2008, 29, 1730-1736.	11.4	83
36	Cartilage repair with osteochondral autografts in sheep: Effect of biophysical stimulation with pulsed electromagnetic fields. Journal of Orthopaedic Research, 2008, 26, 631-642.	2.3	83

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37	Effect of L-lysine and L-arginine on primary osteoblast cultures from normal and osteopenic rats. Biomedicine and Pharmacotherapy, 2001, 55, 213-220.	5.6	82
38	Blood vessel formation after soft-tissue implantation of hyaluronan-based hydrogel supplemented with copper ions. Biomaterials, 2005, 26, 3001-3008.	11.4	82
39	Influence of Different Implant Surfaces on Peri-Implant Osteogenesis: Histomorphometric Analysis in Sheep. Journal of Periodontology, 2007, 78, 879-888.	3.4	81
40	Deregulated miRNAs in bone health: Epigenetic roles in osteoporosis. Bone, 2019, 122, 52-75.	2.9	80
41	Osteosarcoma cell-derived exosomes affect tumor microenvironment by specific packaging of microRNAs. Carcinogenesis, 2020, 41, 666-677.	2.8	79
42	Lights and shadows concerning platelet products for musculoskeletal regeneration. Frontiers in Bioscience - Elite, 2011, E3, 96-107.	1.8	75
43	Histomorphometric, ultrastructural and microhardness evaluation of the osseointegration of a nanostructured titanium oxide coating by metal-organic chemical vapour deposition: an in vivo study. Biomaterials, 2004, 25, 5583-5591.	11.4	74
44	Collagen I-coated titanium surfaces: Mesenchymal cell adhesion andin vivo evaluation in trabecular bone implants. Journal of Biomedical Materials Research - Part A, 2006, 78A, 449-458.	4.0	73
45	Detachment of titanium and fluorohydroxyapatite particles in unloaded endosseous implants. Biomaterials, 2003, 24, 1309-1316.	11.4	72
46	The effect of pulsed electromagnetic fields on the osteointegration of hydroxyapatite implants in cancellous bone: a morphologic and microstructural in vivo study. Journal of Orthopaedic Research, 2002, 20, 756-763.	2.3	68
47	Biological glass coating on ceramic materials:. Biomaterials, 2001, 22, 2535-2543.	11.4	66
48	Effect of Extracorporeal Shock Wave Therapy on Osteoblastlike Cells. Clinical Orthopaedics and Related Research, 2003, 413, 269-280.	1.5	66
49	Effect of pulsed electromagnetic field stimulation on knee cartilage, subchondral and epyphiseal trabecular bone of aged Dunkin Hartley guinea pigs. Biomedicine and Pharmacotherapy, 2008, 62, 709-715.	5.6	66
50	Comparative in vitro study on a ultra-high roughness and dense titanium coating. Biomaterials, 2005, 26, 4948-4955.	11.4	65
51	Influence of a zirconia sandblasting treated surface on peri-implant bone healing: An experimental study in sheep. Acta Biomaterialia, 2009, 5, 2246-2257.	8.3	64
52	A new bi-layered scaffold for osteochondral tissue regeneration: In vitro and in vivo preclinical investigations. Materials Science and Engineering C, 2017, 70, 101-111.	7.3	64
53	Osteointegration of hydroxyapatite-coated and uncoated titanium screws in long-term ovariectomized sheep. Biomaterials, 2002, 23, 1017-1023.	11.4	62
54	Guided regeneration with resorbable conduits in experimental peripheral nerve injuries. International Orthopaedics, 2000, 24, 121-125.	1.9	60

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55	Extracellular Vesicles as Biological Shuttles for Targeted Therapies. International Journal of Molecular Sciences, 2019, 20, 1848.	4.1	60
56	Efficacy of antibacterial-loaded coating in an in vivo model of acutely highly contaminated implant. International Orthopaedics, 2014, 38, 1505-1512.	1.9	59
57	Modifying bone scaffold architecture in vivo with permanent magnets to facilitate fixation of magnetic scaffolds. Bone, 2013, 56, 432-439.	2.9	58
58	Osteointegration of titanium and hydroxyapatite rough surfaces in healthy and compromised cortical and trabecular bone: in vivo comparative study on young, aged, and estrogen-deficient sheep. Journal of Orthopaedic Research, 2007, 25, 1250-1260.	2.3	56
59	Pedicular fixation in the osteoporotic spine: a pilot in vivo study on long-term ovariectomized sheep. Journal of Orthopaedic Research, 2002, 20, 1217-1224.	2.3	55
60	Transplantation of chondrocytes seeded on collagen-based scaffold in cartilage defects in rabbits. Journal of Biomedical Materials Research - Part A, 2005, 75A, 612-622.	4.0	55
61	Osteointegration of bioactive glass-coated zirconia in healthy bone: an in vivo evaluation. Biomaterials, 2002, 23, 3833-3841.	11.4	54
62	Collagen type I coating stimulates bone regeneration and osteointegration of titanium implants in the osteopenic rat. International Orthopaedics, 2015, 39, 2041-2052.	1.9	52
63	In Vitro Behaviour of Osteoblasts Cultured on Orthopaedic Biomaterials with Different Surface Roughness, Uncoated and Fluorohydroxyapatite-Coated, Relative to the in Vivo Osteointegration Rate. International Journal of Artificial Organs, 2003, 26, 520-528.	1.4	51
64	Functional Tissue Engineering in Articular Cartilage Repair: Is There a Role for Electromagnetic Biophysical Stimulation?. Tissue Engineering - Part B: Reviews, 2013, 19, 353-367.	4.8	51
65	MicroRNAs: Novel Crossroads between Myeloma Cells and the Bone Marrow Microenvironment. BioMed Research International, 2016, 2016, 1-12.	1.9	49
66	Atherosclerosis and cancer: common pathways on the vascular endothelium. Biomedicine and Pharmacotherapy, 2002, 56, 317-324.	5.6	48
67	L-Arginine and L-Lysine stimulation on cultured human osteoblasts. Biomedicine and Pharmacotherapy, 2002, 56, 492-497.	5.6	48
68	Bone regeneration potential of a soybean-based filler: experimental study in a rabbit cancellous bone defects. Journal of Materials Science: Materials in Medicine, 2010, 21, 615-626.	3.6	48
69	In vitro study comparing two collageneous membranes in view of their clinical application for rotator cuff tendon regeneration. Journal of Orthopaedic Research, 2007, 25, 98-107.	2.3	47
70	Harmful lifestyles on orthopedic implantation surgery: a descriptive review on alcohol and tobacco use. Journal of Bone and Mineral Metabolism, 2011, 29, 633-644.	2.7	47
71	Relevance of 3d culture systems to study osteosarcoma environment. Journal of Experimental and Clinical Cancer Research, 2018, 37, 2.	8.6	47
72	The in vivo behaviour of a solâ€“gel glass and a glass-ceramic during critical diaphyseal bone defects healing. Biomaterials, 2005, 26, 4374-4382.	11.4	46

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73	Autologous Bone Marrow Concentrate in a Sheep Model of Osteoarthritis: New Perspectives for Cartilage and Meniscus Repair. Tissue Engineering - Part C: Methods, 2016, 22, 608-619.	2.1	46
74	Bone regeneration in a rabbit critical femoral defect by means of magnetic hydroxyapatite macroporous scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 546-554.	3.4	46
75	Extracellular Vesicle microRNAs Contribute to the Osteogenic Inhibition of Mesenchymal Stem Cells in Multiple Myeloma. Cancers, 2020, 12, 449.	3.7	46
76	Biocompatibility and osseointegration in osteoporotic bone. Journal of Bone and Joint Surgery: British Volume, 2001, 83, 139-143.	3.4	46
77	Laser biostimulation of cartilage: in vitro evaluation. Biomedicine and Pharmacotherapy, 2001, 55, 117-120.	5.6	45
78	Deregulated miRNAs in osteoporosis: effects in bone metastasis. Cellular and Molecular Life Sciences, 2019, 76, 3723-3744.	5.4	45
79	Adjuvant Biophysical Therapies in Osteosarcoma. Cancers, 2019, 11, 348.	3.7	45
80	Development and evaluation of a decellularized membrane from human dermis. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 325-336.	2.7	44
81	Comparative in vivo evaluation of porous and dense duplex titanium and hydroxyapatite coating with high roughnesses in different implantation environments. Journal of Biomedical Materials Research - Part A, 2009, 89A, 550-560.	4.0	42
82	Long-Term Results following Cranial Hydroxyapatite Prosthesis Implantation in a Large Skull Defect Model. Plastic and Reconstructive Surgery, 2012, 129, 625e-635e.	1.4	42
83	Innovative magnetic scaffolds for orthopedic tissue engineering. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2278-2286.	4.0	42
84	Gene therapy for chondral and osteochondral regeneration: is the future now?. Cellular and Molecular Life Sciences, 2018, 75, 649-667.	5.4	42
85	Flavonoids in Bone Erosive Diseases: Perspectives in Osteoporosis Treatment. Trends in Endocrinology and Metabolism, 2021, 32, 76-94.	7.1	42
86	Surface analysis and effects on interfacial bone microhardness of collagen-coated titanium implants: a rabbit model. International Journal of Oral and Maxillofacial Implants, 2005, 20, 23-30.	1.4	42
87	Preliminary investigations on a new gentamicin and vancomycinâ€coated PMMA nail for the treatment of bone and intramedullary infections: An experimental study in the rabbit. Journal of Orthopaedic Research, 2008, 26, 785-792.	2.3	41
88	Hypoxia-inducible factor 1Î± may regulate the commitment of mesenchymal stromal cells toward angio-osteogenesis by mirna-675-5P. Cytotherapy, 2017, 19, 1412-1425.	0.7	41
89	Comparative interspecies investigation on osteoblast cultures: data on cell viability and synthetic activity. Biomedicine and Pharmacotherapy, 2003, 57, 57-62.	5.6	40
90	Comparative study of different tendon grasping techniques for arthroscopic repair of the rotator cuff. Clinical Biomechanics, 2006, 21, 799-803.	1.2	40

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91	In vitro study on silk fibroin textile structure for Anterior Cruciate Ligament regeneration. Materials Science and Engineering C, 2013, 33, 3601-3608.	7.3	40
92	In vivo effect of two different pulsed electromagnetic field frequencies on osteoarthritis. Journal of Orthopaedic Research, 2014, 32, 677-685.	2.3	40
93	Circulating biomarkers in osteosarcoma: new translational tools for diagnosis and treatment. Oncotarget, 2017, 8, 100831-100851.	1.8	40
94	In vitro and in vivo performance of a novel surface treatment to enhance osseointegration of endosseous implants. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2007, 103, 745-756.	1.4	39
95	Osseointegration is improved by coating titanium implants with a nanostructured thin film with titanium carbide and titanium oxides clustered around graphitic carbon. Materials Science and Engineering C, 2017, 70, 264-271.	7.3	39
96	Fabrication and Pilot In Vivo Study of a Collagen-BDDGE-Elastin Core-Shell Scaffold for Tendon Regeneration. Frontiers in Bioengineering and Biotechnology, 2016, 4, 52.	4.1	38
97	The effect of osteopenia on the osteointegration of different biomaterials: histomorphometric study in rats. Journal of Materials Science: Materials in Medicine, 2000, 11, 579-585.	3.6	37
98	In Vitro Biocompatibility of Titanium Oxide for Prosthetic Devices Nanostructured by Low Pressure Metal-Organic Chemical Vapor Deposition. International Journal of Artificial Organs, 2003, 26, 774-780.	1.4	37
99	Osteogenic commitment and differentiation of human mesenchymal stem cells by lowâ€intensity pulsed ultrasound stimulation. Journal of Cellular Physiology, 2018, 233, 1558-1573.	4.1	37
100	Biomechanical and histomorphometric investigations on two morphologically differing titanium surfaces with and without fluorohydroxyapatite coating: an experimental study in sheep tibiae. Biomaterials, 2003, 24, 3183-3192.	11.4	36
101	Covalentlyâ€linked hyaluronan promotes bone formation around Ti implants in a rabbit model. Journal of Orthopaedic Research, 2009, 27, 657-663.	2.3	35
102	Engineered exosomes: A new promise for the management of musculoskeletal diseases. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1893-1901.	2.4	35
103	Improvement in zirconia osseointegration by means of a biological glass coating: Anin vitro andin vivo investigation. Journal of Biomedical Materials Research Part B, 2002, 61, 282-289.	3.1	34
104	New polymers for drug delivery systems in orthopaedics: in vivo biocompatibility evaluation. Biomedicine and Pharmacotherapy, 2004, 58, 411-417.	5.6	34
105	In vitro and in vivo response to nanotopographically-modified surfaces of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and polycaprolactone. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 1405-1423.	3.5	34
106	Evaluation of Pain and Stress Levels of Animals Used in Experimental Research. Journal of Surgical Research, 2000, 88, 114-119.	1.6	33
107	Effects of pulsed electromagnetic stimulation on patients undergoing hip revision prostheses: A randomized prospective doubleâ€blind study. Bioelectromagnetics, 2009, 30, 423-430.	1.6	33
108	Vitamin D Level Between Calcium-Phosphorus Homeostasis and Immune System: New Perspective in Osteoporosis. Current Osteoporosis Reports, 2016, , 1.	3.6	33

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109	Muscular Trauma Treated with a Ga-Al-As Diode Laser: In Vivo Experimental Study. Lasers in Medical Science, 1998, 13, 293-298.	2.1	31
110	Magnetic forces and magnetized biomaterials provide dynamic flux information during bone regeneration. Journal of Materials Science: Materials in Medicine, 2016, 27, 51.	3.6	31
111	Regenerative Features of Adipose Tissue for Osteoarthritis Treatment in a Rabbit Model: Enzymatic Digestion Versus Mechanical Disruption. International Journal of Molecular Sciences, 2019, 20, 2636.	4.1	31
112	Two 1H-nuclear magnetic resonance methods to measure internal porosity of bone trabeculae: By solidâ€“liquid signal separation and by longitudinal relaxation. Journal of Applied Physics, 2004, 95, 339-343.	2.5	30
113	Total Hip Arthroplasty With Shortening Osteotomy in Congenital Major Hip Dislocation Sequelae. Orthopedics, 2011, 34, e328-33.	1.1	30
114	Titanium alloy osseointegration in cancellous and cortical bone of ovariectomized animals: histomorphometric and bone hardness measurements. International Journal of Oral and Maxillofacial Implants, 2002, 17, 28-37.	1.4	30
115	Pulsed electromagnetic fields combined with a collagenous scaffold and bone marrow concentrate enhance osteochondral regeneration: an in vivo study. BMC Musculoskeletal Disorders, 2015, 16, 233.	1.9	29
116	Bone's Response to Mechanical Loading in Aging and Osteoporosis: Molecular Mechanisms. Calcified Tissue International, 2020, 107, 301-318.	3.1	29
117	Human Osteopenic Boneâ€Derived Osteoblasts: Essential Amino Acids Treatment Effects. Artificial Cells, Blood Substitutes, and Biotechnology, 2003, 31, 35-46.	0.9	28
118	Destination of titanium particles detached from titanium plasma sprayed implants. Micron, 2007, 38, 618-625.	2.2	28
119	Osteointegration in Custom-made Porous Hydroxyapatite Cranial Implants: From Reconstructive Surgery to Regenerative Medicine. World Neurosurgery, 2015, 84, 591.e11-591.e16.	1.3	28
120	Early Effects of Extracorporeal Shock Wave Treatment on Osteoblast-like Cells: A Comparative Study Between Electromagnetic and Electrohydraulic Devices. Journal of Trauma, 2006, 61, 1198-1206.	2.3	27
121	Histomorphometric and mechanical analysis of the hydroxyapatite-bone interface after electromagnetic stimulation. Journal of Bone and Joint Surgery: British Volume, 2006, 88-B, 123-128.	3.4	27
122	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.	2.3	27
123	Microbiological and pharmacological tests on new antibioticâ€loaded PMMAâ€based composites for the treatment of osteomyelitis. Journal of Orthopaedic Research, 2012, 30, 348-355.	2.3	27
124	Role of moderate exercising on Achilles tendon collagen crimping patterns and proteoglycans. Connective Tissue Research, 2013, 54, 267-274.	2.3	27
125	Bioactivity and bone healing properties of biomimetic porous composite scaffold: In vitro and in vivo studies. Journal of Biomedical Materials Research - Part A, 2015, 103, 2932-2941.	4.0	27
126	Effects of intraâ€articular hyaluronic acid associated to Chitlac (artyâ€duoÂ®) in a rat knee osteoarthritis model. Journal of Orthopaedic Research, 2019, 37, 867-876.	2.3	27

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127	Multiple Myeloma-Derived Extracellular Vesicles Induce Osteoclastogenesis through the Activation of the XBP1/IRE1Î± Axis. Cancers, 2020, 12, 2167.	3.7	27
128	Primary Osteoblasts Response to Shock Wave Therapy Using Different Parameters. Artificial Cells, Blood Substitutes, and Biotechnology, 2003, 31, 449-466.	0.9	26
129	Effects ofÂsystemic glucocorticoid administration onÂtenocytes. Biomedicine and Pharmacotherapy, 2006, 60, 380-385.	5.6	26
130	Polylactide Bioabsorbable Polymers for Guided Tissue Regeneration. Arteriosclerosis, Thrombosis, and Vascular Biology, 1999, 47, 303-308.	2.4	26
131	An in vitro 3D bone metastasis model by using a human bone tissue culture and human sex-related cancer cells. Oncotarget, 2016, 7, 76966-76983.	1.8	26
132	Physical and biological characterizations of a novel multiphase anodic spark deposition coating to enhance implant osseointegration. Journal of Materials Science: Materials in Medicine, 2005, 16, 1221-1229.	3.6	25
133	Tissue healing in implants immediately placed into postextraction sockets: A pilot study in a mini-pig model. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2005, 100, e43-e50.	1.4	25
134	Long-term in vivo experimental investigations on magnesium doped hydroxyapatite bone substitutes. Journal of Materials Science: Materials in Medicine, 2014, 25, 1495-1504.	3.6	25
135	HUMAN OSTEOBLAST CULTURES FROM OSTEOPOROTIC AND HEALTHY BONE: BIOCHEMICAL MARKERS AND CYTOKINE EXPRESSION IN BASAL CONDITIONS AND IN RESPONSE TO 1,25(OH)2D3. Artificial Cells, Blood Substitutes, and Biotechnology, 2002, 30, 219-227.	0.9	24
136	Chondroprotective activity of N-acetyl phenylalanine glucosamine derivative on knee joint structure and inflammation in a murine model of osteoarthritis. Osteoarthritis and Cartilage, 2017, 25, 589-599.	1.3	24
137	The Non-Coding RNA Landscape of Plasma Cell Dyscrasias. Cancers, 2020, 12, 320.	3.7	24
138	In vitro response of primary rat osteoblasts to titania/hydroxyapatite coatings compared with transformed human osteoblast-like cells. Journal of Materials Science: Materials in Medicine, 2002, 13, 797-801.	3.6	23
139	New Bio-ceramization process applied to vegetable hierarchical structures for bone regeneration: an experimental model in sheep.. Tissue Engineering - Part A, 2014, 20, 131007215556003.	3.1	23
140	Experimentally induced cartilage degeneration treated by pulsed electromagnetic field stimulation; an in vitro study on bovine cartilage. BMC Musculoskeletal Disorders, 2015, 16, 308.	1.9	23
141	Effect of Low-Intensity Pulsed Ultrasound on Osteogenic Human Mesenchymal Stem Cells Commitment in a New Bone Scaffold. Journal of Applied Biomaterials and Functional Materials, 2017, 15, 215-222.	1.6	23
142	A new austenitic stainless steel with a negligible amount of nickel: Anin vitro study in view of its clinical application in osteoporotic bone. Journal of Biomedical Materials Research Part B, 2004, 71B, 30-37.	3.1	22
143	Decellularized Human Dermis to Treat Massive Rotator Cuff Tears: In Vitro Evaluations. Connective Tissue Research, 2012, 53, 298-306.	2.3	22
144	Effect of strontium substituted ÃŸâ€TCP associated to mesenchymal stem cells from bone marrow and adipose tissue on spinal fusion in healthy and ovariectomized rat. Journal of Cellular Physiology, 2019, 234, 20046-20056.	4.1	22

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145	Improvement of osteogenic differentiation of human mesenchymal stem cells on composite poly l-lactic acid/nano-hydroxyapatite scaffolds for bone defect repair. Journal of Bioscience and Bioengineering, 2020, 129, 250-257.	2.2	22
146	Non-flavonoid polyphenols in osteoporosis: preclinical evidence. Trends in Endocrinology and Metabolism, 2021, 32, 515-529.	7.1	22
147	Isolation and characterization of osteoblast cultures from normal and osteopenic sheep for biomaterials evaluation. Journal of Biomedical Materials Research Part B, 2000, 52, 177-182.	3.1	21
148	Characterization of Bone Defect Repair in Young and Aged Rat Femur Induced by Xenogenic Demineralized Bone Matrix. Journal of Periodontology, 2002, 73, 1003-1009.	3.4	21
149	In vitro Models to Test Orthopedic Biomaterials in View of Their Clinical Application in Osteoporotic Bone. International Journal of Artificial Organs, 2004, 27, 658-663.	1.4	21
150	Long Non Coding RNA H19: A New Player in Hypoxia-Induced Multiple Myeloma Cell Dissemination. International Journal of Molecular Sciences, 2019, 20, 801.	4.1	21
151	Histological, Histomorphometrical, and Biomechanical Studies of Bone-Implanted Medical Devices: Hard Resin Embedding. BioMed Research International, 2020, 2020, 1-13.	1.9	21
152	In Vitro Pathological Model of Osteopenia to Test Orthopaedic Biomaterials. Artificial Cells, Blood Substitutes, and Biotechnology, 2000, 28, 181-192.	0.9	20
153	Current Trends in the Enhancement of Biomaterial Osteointegration: Biophysical Stimulation. International Journal of Artificial Organs, 2004, 27, 681-690.	1.4	20
154	A New Chemical Etching Process to Improve Endosseous Implant Osseointegration: In Vitro Evaluation on Human Osteoblast-Like Cells. International Journal of Artificial Organs, 2006, 29, 772-780.	1.4	20
155	Sandblasted Titanium Osteointegration in Young, Aged and Ovariectomized Sheep. International Journal of Artificial Organs, 2007, 30, 163-172.	1.4	20
156	Current Trends in the Evaluation of Osteochondral Lesion Treatments: Histology, Histomorphometry, and Biomechanics in Preclinical Models. BioMed Research International, 2019, 2019, 1-27.	1.9	20
157	miR-31-5p Is a LIPUS-Mechanosensitive MicroRNA that Targets HIF-1Î± Signaling and Cytoskeletal Proteins. International Journal of Molecular Sciences, 2019, 20, 1569.	4.1	20
158	Osseointegration of additive manufacturing Tiâ€“6Alâ€“4V and Coâ€“Crâ€“Mo alloys, with and without surface functionalization with hydroxyapatite and type I collagen. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104262.	3.1	20
159	Micro-fragmentation is a valid alternative to cell expansion and enzymatic digestion of adipose tissue for the treatment of knee osteoarthritis: a comparative preclinical study. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 773-781.	4.2	20
160	Adsorption of cationic antibacterial on collagen-coated titanium implant devices. Biomedicine and Pharmacotherapy, 2004, 58, 418-422.	5.6	19
161	Shock Wave Therapy as an Innovative Technology in Skeletal Disorders: Study on Transmembrane Current in Stimulated Osteoblast-Like Cells. International Journal of Artificial Organs, 2005, 28, 841-847.	1.4	19
162	New perspectives in rotator cuff tendon regeneration: review of tissue engineered therapies. La Chirurgia Degli Organi Di Movimento, 2008, 91, 87-92.	0.2	19

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163	A novel multiphase anodic spark deposition coating for the improvement of orthopedic implant osseointegration: An experimental study in cortical bone of sheep. Journal of Biomedical Materials Research - Part A, 2008, 85A, 1022-1031.	4.0	19
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