

Donatella Granchi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1064782/donatella-granchi-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118
papers

4,299
citations

38
h-index

60
g-index

125
ext. papers

4,658
ext. citations

7.6
avg, IF

4.91
L-index

#	Paper	IF	Citations
118	Bone regeneration and stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 718-46	5.6	254
117	Osteoblast growth and function in porous poly epsilon -caprolactone matrices for bone repair: a preliminary study. <i>Biomaterials</i> , 2003 , 24, 3815-24	15.6	205
116	MicroRNA expression profiling of human bone marrow mesenchymal stem cells during osteogenic differentiation reveals Osterix regulation by miR-31. <i>Gene</i> , 2013 , 527, 321-31	3.8	148
115	Ion release in patients with metal-on-metal hip bearings in total joint replacement: a comparison with metal-on-polyethylene bearings. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 63, 467-74		147
114	Sensitivity to implant materials in patients with total knee arthroplasties. <i>Biomaterials</i> , 2008 , 29, 1494-500	5.6	134
113	Cell culture methods for testing biocompatibility. <i>Clinical Materials</i> , 1994 , 15, 173-90		128
112	Metal hypersensitivity testing in patients undergoing joint replacement: a systematic review. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2012 , 94, 1126-34		118
111	Biocompatibility of poly(D,L-lactide-co-glycolide) nanoparticles conjugated with alendronate. <i>Biomaterials</i> , 2008 , 29, 1400-11	15.6	111
110	Serum concentrations of zinc and selenium in elderly people: results in healthy nonagenarians/centenarians. <i>Experimental Gerontology</i> , 2001 , 36, 327-39	4.5	104
109	Role of mesenchymal stem cells in osteosarcoma and metabolic reprogramming of tumor cells. <i>Oncotarget</i> , 2014 , 5, 7575-88	3.3	99
108	Cytokine release in mononuclear cells of patients with Co-Cr hip prosthesis. <i>Biomaterials</i> , 1999 , 20, 1079-86	4.6	95
107	Cytokines and osteolysis around total hip prostheses. <i>Cytokine</i> , 2000 , 12, 1575-9	4	92
106	Sensitivity to implant materials in patients undergoing total hip replacement. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 77, 257-64	3.5	89
105	Application of a combination of neutral red and amido black staining for rapid, reliable cytotoxicity testing of biomaterials. <i>Biomaterials</i> , 1996 , 17, 1259-1264	15.6	75
104	Hypoxia enhances proliferation and stemness of human adipose-derived mesenchymal stem cells. <i>Cytotechnology</i> , 2015 , 67, 1073-84	2.2	73
103	Silicone breast implants: the role of immune system on capsular contracture formation. <i>Journal of Biomedical Materials Research Part B</i> , 1995 , 29, 197-202		68
102	Molecular basis of osteoclastogenesis induced by osteoblasts exposed to wear particles. <i>Biomaterials</i> , 2005 , 26, 2371-9	15.6	65

101	Cell death induced by metal ions: necrosis or apoptosis?. <i>Journal of Materials Science: Materials in Medicine</i> , 1998 , 9, 31-7	4.5	63
100	In vitro testing of the potential for orthopedic bone cements to cause apoptosis of osteoblast-like cells. <i>Biomaterials</i> , 2002 , 23, 617-27	15.6	59
99	Bone-resorbing cytokines in serum of patients with aseptic loosening of hip prostheses. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1998 , 80, 912-7		56
98	V-ATPase is a candidate therapeutic target for Ewing sarcoma. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 1105-16	6.9	53
97	The combined use of mesenchymal stromal cells and scaffolds for bone repair. <i>Current Pharmaceutical Design</i> , 2012 , 18, 1796-820	3.3	53
96	The influence of alumina and ultra-high molecular weight polyethylene particles on osteoblast-osteoclast cooperation. <i>Biomaterials</i> , 2004 , 25, 4037-45	15.6	52
95	Assessment of metal extract toxicity on human lymphocytes cultured in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 31, 183-91		52
94	A novel biomaterial for osteotropic drug nanocarriers: synthesis and biocompatibility evaluation of a PLGA-ALE conjugate. <i>Nanomedicine</i> , 2009 , 4, 161-75	5.6	51
93	Adhesive protein expression on endothelial cells after contact in vitro with polyethylene terephthalate coated with pyrolytic carbon. <i>Biomaterials</i> , 1995 , 16, 1223-7	15.6	50
92	Gene expression patterns related to osteogenic differentiation of bone marrow-derived mesenchymal stem cells during ex vivo expansion. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 511-24	2.9	48
91	Preparation method and growth factor content of platelet concentrate influence the osteogenic differentiation of bone marrow stromal cells. <i>Cytotherapy</i> , 2013 , 15, 830-9	4.8	47
90	In vitro blockade of receptor activator of nuclear factor-kappaB ligand prevents osteoclastogenesis induced by neuroblastoma cells. <i>International Journal of Cancer</i> , 2004 , 111, 829-38	7.5	44
89	Expression of adhesion molecules on endothelial cells after contact with knitted Dacron. <i>Biomaterials</i> , 1997 , 18, 489-94	15.6	43
88	Fluorescent microplate assay for respiratory burst of PMNs challenged in vitro with orthopedic metals. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 41, 455-60		41
87	Asfotase-Improves bone growth, mineralization and strength in mouse models of neurofibromatosis type-1. <i>Nature Medicine</i> , 2014 , 20, 904-10	50.5	40
86	Expression of cell adhesion receptors in human osteoblasts cultured on biofunctionalized poly-(epsilon-caprolactone) surfaces. <i>Biomaterials</i> , 2007 , 28, 3668-78	15.6	40
85	Apoptosis in peri-implant tissue. <i>Biomaterials</i> , 2000 , 21, 1393-8	15.6	40
84	Serum levels of osteoprotegerin and receptor activator of nuclear factor-kappaB ligand as markers of periprosthetic osteolysis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006 , 88, 1501-9	5.6	39

83	Expression of the CD69 activation antigen on lymphocytes of patients with hip prosthesis. <i>Biomaterials</i> , 2000 , 21, 2059-65	15.6	39
82	In vitro effects of bone cements on the cell cycle of osteoblast-like cells. <i>Biomaterials</i> , 1995 , 16, 1187-92	15.6	39
81	Orthoplastic surgical collaboration is required to optimise the treatment of severe limb injuries: A multi-centre, prospective cohort study. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2017 , 70, 715-722	1.7	38
80	Impairment of lysosomal activity as a therapeutic modality targeting cancer stem cells of embryonal rhabdomyosarcoma cell line RD. <i>PLoS ONE</i> , 2014 , 9, e110340	3.7	37
79	The natural compound Alizarin as an osteotropic drug for the treatment of bone tumors. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 1486-92	3.8	36
78	Role of PLLA plasma surface modification in the interaction with human marrow stromal cells. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 3602-3611	2.9	36
77	Mesenchymal progenitors expressing TRAIL induce apoptosis in sarcomas. <i>Stem Cells</i> , 2015 , 33, 859-69	5.8	35
76	High-performance liquid chromatography assay of N,N-dimethyl-p-toluidine released from bone cements: evidence for toxicity. <i>Biomaterials</i> , 1997 , 18, 243-6	15.6	35
75	Cytotoxicity testing of materials with limited in vivo exposure is affected by the duration of cell-material contact. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 485-90		35
74	Enhancing osteoconduction of PLLA-based nanocomposite scaffolds for bone regeneration using different biomimetic signals to MSCs. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 2439-58	6.3	33
73	Platelet and coagulation factor variations induced in vitro by polyethylene terephthalate (Dacron) coated with pyrolytic carbon. <i>Biomaterials</i> , 1995 , 16, 973-6	15.6	33
72	Ex vivo observation of human intervertebral disc tissue and cells isolated from degenerated intervertebral discs. <i>European Spine Journal</i> , 2012 , 21 Suppl 1, S10-9	2.7	32
71	Evaluation of osteoblast-like cell response to Proroot MTA (mineral trioxide aggregate) cement. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 167-73	4.5	30
70	Endothelial cells incubated with platelet-rich plasma express PDGF-B and ICAM-1 and induce bone marrow stromal cell migration. <i>Journal of Orthopaedic Research</i> , 2009 , 27, 1493-8	3.8	29
69	Biological effects of metal degradation in hip arthroplasties. <i>Critical Reviews in Toxicology</i> , 2018 , 48, 1705-19	19.3	29
68	Effects of chromium extract on cytokine release by mononuclear cells. <i>Biomaterials</i> , 1998 , 19, 283-91	15.6	28
67	Bone cement extracts modulate the osteoprotegerin/osteoprotegerin-ligand expression in MG63 osteoblast-like cells. <i>Biomaterials</i> , 2002 , 23, 2359-65	15.6	28
66	Association of two gene polymorphisms with osteoarthritis secondary to hip dysplasia. <i>Clinical Orthopaedics and Related Research</i> , 2002 , 108-17	2.2	28

65	Adhesive protein expression on human endothelial cells after in vitro contact with woven Dacron. <i>Biomaterials</i> , 1998 , 19, 93-8	15.6	27
64	Sister chromatid exchanges and ion release in patients wearing fracture fixation devices. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 50, 21-6		27
63	Endodontic cements induce alterations in the cell cycle of in vitro cultured osteoblasts. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 1995 , 79, 359-66		27
62	Prolonged exposure to hypoxic milieu improves the osteogenic potential of adipose derived stem cells. <i>Journal of Cellular Biochemistry</i> , 2015 , 116, 1442-53	4.7	26
61	Effects of hypoxia on osteogenic differentiation of mesenchymal stromal cells used as a cell therapy for avascular necrosis of the femoral head. <i>Cytotherapy</i> , 2016 , 18, 1087-99	4.8	25
60	Establishment and characterization of a primitive neuroectodermal tumor of bone continuous cell line (LAP-35). <i>International Journal of Cell Cloning</i> , 1990 , 8, 409-24		24
59	Effects of osteogenic differentiation inducers on in vitro expanded adult mesenchymal stromal cells. <i>International Journal of Artificial Organs</i> , 2011 , 34, 998-1011	1.9	23
58	The effect of poly(d,l-lactide-co-glycolide)-alendronate conjugate nanoparticles on human osteoclast precursors. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 1285-300	3.5	23
57	Cytokine production and adhesive protein expression by endothelial cells after contact with polyethylene terephthalate. <i>Biomaterials</i> , 1996 , 17, 2071-6	15.6	23
56	Neuroblastoma and bone metastases: clinical significance and prognostic value of Dickkopf 1 plasma levels. <i>Bone</i> , 2011 , 48, 152-9	4.7	22
55	Osteogenic properties of late adherent subpopulations of human bone marrow stromal cells. <i>Histochemistry and Cell Biology</i> , 2009 , 132, 547-57	2.4	22
54	Role of Citrate in Pathophysiology and Medical Management of Bone Diseases. <i>Nutrients</i> , 2019 , 11,	6.7	21
53	In vitro cytokine production by mononuclear cells exposed to bone cement extracts. <i>Biomaterials</i> , 2000 , 21, 1789-95	15.6	21
52	Established cell lines and primary cultures in testing medical devices in vitro. <i>Toxicology in Vitro</i> , 1999 , 13, 801-10	3.6	21
51	Platelet release of transforming growth factor-beta and beta-thromboglobulin after in vitro contact with acrylic bone cements. <i>Biomaterials</i> , 2002 , 23, 1479-84	15.6	20
50	Biological basis for the use of autologous bone marrow stromal cells in the treatment of congenital pseudarthrosis of the tibia. <i>Bone</i> , 2010 , 46, 780-8	4.7	19
49	Paracrine inhibition of osteoblast differentiation induced by neuroblastoma cells. <i>International Journal of Cancer</i> , 2008 , 123, 1526-35	7.5	19
48	Systemic cross-linked N-terminal telopeptide and procollagen I C-terminal extension peptide as markers of bone turnover after total hip arthroplasty. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2005 , 87, 571-6		19

47	Plasma levels of receptor activator of nuclear factor-kappaB ligand and osteoprotegerin in patients with neuroblastoma. <i>International Journal of Cancer</i> , 2006 , 119, 146-51	7.5	17
46	A regenerative approach for bone repair in congenital pseudarthrosis of the tibia associated or not associated with type 1 neurofibromatosis: correlation between laboratory findings and clinical outcome. <i>Cytotherapy</i> , 2012 , 14, 306-14	4.8	16
45	Low toxicity and unprecedented anti-osteoclast activity of a simple sulfur-containing gem-bisphosphonate: a comparative study. <i>European Journal of Medicinal Chemistry</i> , 2013 , 65, 448-55	6.8	16
44	Circulating levels of VCAM and MMP-2 may help identify patients with more aggressive prostate cancer. <i>Current Cancer Drug Targets</i> , 2008 , 8, 199-206	2.8	16
43	Nitric oxide synthase in tissues around failed hip prostheses. <i>Biomaterials</i> , 2002 , 23, 4833-8	15.6	16
42	Synthesis, characterization and biological activity of hydroxyl-bisphosphonic analogs of bile acids. <i>European Journal of Medicinal Chemistry</i> , 2012 , 52, 221-9	6.8	15
41	Increased osteoclast activity is associated with aggressiveness of osteosarcoma 1992 , 33, 1231		15
40	Comparative "in vitro" evaluation of the antiresorptive activity residing in four Ayurvedic medicinal plants. Hemidesmus indicus emerges for its potential in the treatment of bone loss diseases. <i>Journal of Ethnopharmacology</i> , 2014 , 154, 462-70	5	14
39	In vitro assessment of phagocytosis of bovine collagen by human monocytes/macrophages using a spectrophotometric method. <i>Biomaterials</i> , 1996 , 17, 1703-7	15.6	14
38	Potassium citrate prevents increased osteoclastogenesis resulting from acidic conditions: Implication for the treatment of postmenopausal bone loss. <i>PLoS ONE</i> , 2017 , 12, e0181230	3.7	14
37	X-ray diffraction of bone at the interface with hydroxyapatite-coated versus uncoated metal implants. <i>Journal of Materials Science: Materials in Medicine</i> , 1998 , 9, 109-15	4.5	13
36	Cytokine expression in vitro by cultured human endothelial cells in contact with polyethylene terephthalate coated with pyrolytic carbon and collagen. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 50, 483-9		13
35	Modulation of pro- and anti-apoptotic genes in lymphocytes exposed to bone cements. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000 , 11, 633-46	3.5	13
34	Effects of bone cement extracts on the cell-mediated immune response. <i>Biomaterials</i> , 2002 , 23, 1033-41	15.6	12
33	Sister chromatid exchange in patients with joint prostheses. <i>Journal of Arthroplasty</i> , 2000 , 15, 772-7	4.4	12
32	Alpha-lipoic Acid After Median Nerve Decompression at the Carpal Tunnel: A Randomized Controlled Trial. <i>Journal of Hand Surgery</i> , 2017 , 42, 236-242	2.6	11
31	Serum levels of fibroblast growth factor 2 in children with orthopedic diseases: potential role in predicting bone healing. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 249-56	3.8	11
30	IGF2 derived from SH-SY5Y neuroblastoma cells induces the osteoclastogenesis of human monocytic precursors. <i>Experimental Cell Research</i> , 2011 , 317, 2147-58	4.2	11

29	Assessment of viability and proliferation of in vivo silicone-primed lymphocytes after in vitro re-exposure to silicone. <i>Journal of Biomedical Materials Research Part B</i> , 1995 , 29, 583-90		11
28	Changes of Bone Turnover Markers in Long Bone Nonunions Treated with a Regenerative Approach. <i>Stem Cells International</i> , 2017 , 2017, 3674045	5	9
27	In vitro complement activation after contact with pyrolytic carbon-coated and uncoated polyethylene terephthalate. <i>Journal of Materials Science: Materials in Medicine</i> , 1997 , 8, 771-4	4.5	9
26	Effects of antisense mediated inhibition of cathepsin K on human osteoclasts obtained from peripheral blood. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 1699-708	3.8	9
25	Gene expression of bone-associated cytokines in MG63 osteoblast-like cells incubated with acrylic bone cement extracts in minimum essential medium. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002 , 13, 1283-94	3.5	9
24	Platelet activation after in vitro contact with seven acrylic bone cements. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002 , 13, 17-25	3.5	9
23	Biomarkers of bone healing induced by a regenerative approach based on expanded bone marrow-derived mesenchymal stromal cells. <i>Cytotherapy</i> , 2019 , 21, 870-885	4.8	8
22	Flow-cytometric analysis of leukocyte activation induced by polyethylene-terephthalate with and without pyrolytic carbon coating. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 39, 549-53		8
21	Effect of four acrylic bone cements on transforming growth factor-beta1 expression by osteoblast-like cells MG63. <i>Biomaterials</i> , 2002 , 23, 305-11	15.6	7
20	Evaluation of the effect of seven acrylic bone cements on erythrocytes and plasmatic phase of coagulation. <i>Biomaterials</i> , 2001 , 22, 1321-6	15.6	7
19	Evaluation of endothelial cell integrins after in vitro contact with polyethylene terephthalate. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 345-9	4.5	6
18	Interleukin-6 expression by osteoblast-like MG63 cells challenged with four acrylic bone cements. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001 , 12, 243-53	3.5	6
17	Influence of polyethylene terephthalate on the release of growth factors by human endothelial cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999 , 10, 891-900	3.5	6
16	Synthesis of a Novel Class of gem-Phosphonate-Phosphates by Reductive Cleavage of the Isoxazolidine Ring. <i>Current Organic Synthesis</i> , 2014 , 11, 461-465	1.9	6
15	Potassium Citrate Supplementation Decreases the Biochemical Markers of Bone Loss in a Group of Osteopenic Women: The Results of a Randomized, Double-Blind, Placebo-Controlled Pilot Study. <i>Nutrients</i> , 2018 , 10,	6.7	6
14	Evaluation of tissue-factor production by human endothelial cells incubated with three acrylic bone cements. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 131-6		5
13	No effect of methacrylate-based bone cement CMW 1 on the plasmatic phase of coagulation, red blood cells and endothelial cells in vitro. <i>Acta Orthopaedica</i> , 2001 , 72, 86-93		5
12	Isolation and characterization of a new cell line from a renal carcinoma bone metastasis. <i>Anticancer Research</i> , 2004 , 24, 1705-11	2.3	5

11	Bone repair and regeneration 2009 , 69-105		4
10	Inflammatory Response to Metals and Ceramics 2002 , 735-791		4
9	SERUM LEVELS OF OSTEOPROTEGERIN AND RECEPTOR ACTIVATOR OF NUCLEAR FACTOR- κ B LIGAND AS MARKERS OF PERIPROSTHETIC OSTEOLYSIS. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006 , 88, 1501-1509	5.6	4
8	Is the high superior tension technique an equivalent substitute for progressive tension sutures in postbariatric abdominoplasty? A comparison prospective study. <i>Plastic and Reconstructive Surgery</i> , 2014 , 133, 544-549	2.7	3
7	In vitro assessment of lymphocytes response following re-exposure to silicone. <i>Journal of Materials Science: Materials in Medicine</i> , 1994 , 5, 640-643	4.5	3
6	Cell-based Assay System for Predicting Bone Regeneration in Patient Affected by Aseptic Nonunion and Treated with Platelet Rich Fibrin. <i>Current Pharmaceutical Biotechnology</i> , 2016 , 17, 1079-1088	2.6	3
5	Epineurotomy of the median nerve in carpal tunnel release: a systematic review and an attempt of meta-analysis. <i>European Orthopaedics and Traumatology</i> , 2012 , 3, 257-260		2
4	Interleukin-6 expression by cultured human endothelial cells in contact with carbon coated polyethylene terephthalate. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 365-9	4.5	2
3	Thrombomodulin expression in endothelial cells after contact with bone cement. <i>Biomaterials</i> , 2002 , 23, 2159-65	15.6	1
2	Effect of CMW 1 bone cement on transforming growth factor-beta 1 expression by endothelial cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001 , 12, 1011-25	3.5	1
1	X-ray diffraction analysis of bone-cement interface in failed hip arthroplasties. <i>Journal of Materials Science: Materials in Medicine</i> , 1994 , 5, 644-646	4.5	