

# Donatella Granchi

## List of Publications by Year in Descending Order

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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	Biomarkers of bone healing induced by a regenerative approach based on expanded bone marrow-derived mesenchymal stromal cells. <i>Cytotherapy</i> , <b>2019</b> , 21, 870-885	4.8	8
117	Role of Citrate in Pathophysiology and Medical Management of Bone Diseases. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	21
116	Biological effects of metal degradation in hip arthroplasties. <i>Critical Reviews in Toxicology</i> , <b>2018</b> , 48, 1705-1793	5.193	29
115	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> , <b>2018</b> , 10,	6.7	6
114	Alpha-lipoic Acid After Median Nerve Decompression at the Carpal Tunnel: A Randomized Controlled Trial. <i>Journal of Hand Surgery</i> , <b>2017</b> , 42, 236-242	2.6	11
113	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> , <b>2017</b> , 70, 715-722	1.7	38
112	Changes of Bone Turnover Markers in Long Bone Nonunions Treated with a Regenerative Approach. <i>Stem Cells International</i> , <b>2017</b> , 2017, 3674045	5	9
111	Potassium citrate prevents increased osteoclastogenesis resulting from acidic conditions: Implication for the treatment of postmenopausal bone loss. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181230	3.7	14
110	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> , <b>2016</b> , 18, 1087-99	4.8	25
109	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> , <b>2016</b> , 17, 1079-1088	2.6	3
108	Mesenchymal progenitors expressing TRAIL induce apoptosis in sarcomas. <i>Stem Cells</i> , <b>2015</b> , 33, 859-69	5.8	35
107	Hypoxia enhances proliferation and stemness of human adipose-derived mesenchymal stem cells. <i>Cytotechnology</i> , <b>2015</b> , 67, 1073-84	2.2	73
106	Prolonged exposure to hypoxic milieu improves the osteogenic potential of adipose derived stem cells. <i>Journal of Cellular Biochemistry</i> , <b>2015</b> , 116, 1442-53	4.7	26
105	Impairment of lysosomal activity as a therapeutic modality targeting cancer stem cells of embryonal rhabdomyosarcoma cell line RD. <i>PLoS ONE</i> , <b>2014</b> , 9, e110340	3.7	37
104	Asfotase- $\beta$ improves bone growth, mineralization and strength in mouse models of neurofibromatosis type-1. <i>Nature Medicine</i> , <b>2014</b> , 20, 904-10	50.5	40
103	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> , <b>2014</b> , 133, 544-549	2.7	3
102	Comparative "in vitro" evaluation of the antiresorptive activity residing in four Ayurvedic medicinal plants. <i>Hemidesmus indicus</i> emerges for its potential in the treatment of bone loss diseases. <i>Journal of Ethnopharmacology</i> , <b>2014</b> , 154, 462-70	5	14

101	Role of mesenchymal stem cells in osteosarcoma and metabolic reprogramming of tumor cells. <i>Oncotarget</i> , <b>2014</b> , 5, 7575-88	3.3	99
100	Synthesis of a Novel Class of gem-Phosphonate-Phosphates by Reductive Cleavage of the Isoxazolidine Ring. <i>Current Organic Synthesis</i> , <b>2014</b> , 11, 461-465	1.9	6
99	MicroRNA expression profiling of human bone marrow mesenchymal stem cells during osteogenic differentiation reveals Osterix regulation by miR-31. <i>Gene</i> , <b>2013</b> , 527, 321-31	3.8	148
98	Preparation method and growth factor content of platelet concentrate influence the osteogenic differentiation of bone marrow stromal cells. <i>Cytotherapy</i> , <b>2013</b> , 15, 830-9	4.8	47
97	V-ATPase is a candidate therapeutic target for Ewing sarcoma. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2013</b> , 1832, 1105-16	6.9	53
96	Low toxicity and unprecedented anti-osteoclast activity of a simple sulfur-containing gem-bisphosphonate: a comparative study. <i>European Journal of Medicinal Chemistry</i> , <b>2013</b> , 65, 448-55	6.8	16
95	Serum levels of fibroblast growth factor 2 in children with orthopedic diseases: potential role in predicting bone healing. <i>Journal of Orthopaedic Research</i> , <b>2013</b> , 31, 249-56	3.8	11
94	Synthesis, characterization and biological activity of hydroxyl-bisphosphonic analogs of bile acids. <i>European Journal of Medicinal Chemistry</i> , <b>2012</b> , 52, 221-9	6.8	15
93	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> , <b>2012</b> , 14, 306-14	4.8	16
92	Epineurotomy of the median nerve in carpal tunnel release: a systematic review and an attempt of meta-analysis. <i>European Orthopaedics and Traumatology</i> , <b>2012</b> , 3, 257-260		2
91	The natural compound Alizarin as an osteotropic drug for the treatment of bone tumors. <i>Journal of Orthopaedic Research</i> , <b>2012</b> , 30, 1486-92	3.8	36
90	Ex vivo observation of human intervertebral disc tissue and cells isolated from degenerated intervertebral discs. <i>European Spine Journal</i> , <b>2012</b> , 21 Suppl 1, S10-9	2.7	32
89	Enhancing osteoconduction of PLLA-based nanocomposite scaffolds for bone regeneration using different biomimetic signals to MSCs. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 2439-58	6.3	33
88	The effect of poly(d,l-lactide-co-glycolide)-alendronate conjugate nanoparticles on human osteoclast precursors. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2012</b> , 23, 1285-300	3.5	23
87	Metal hypersensitivity testing in patients undergoing joint replacement: a systematic review. <i>Journal of Bone and Joint Surgery: British Volume</i> , <b>2012</b> , 94, 1126-34		118
86	The combined use of mesenchymal stromal cells and scaffolds for bone repair. <i>Current Pharmaceutical Design</i> , <b>2012</b> , 18, 1796-820	3.3	53
85	Neuroblastoma and bone metastases: clinical significance and prognostic value of Dickkopf 1 plasma levels. <i>Bone</i> , <b>2011</b> , 48, 152-9	4.7	22
84	Effects of osteogenic differentiation inducers on in vitro expanded adult mesenchymal stromal cells. <i>International Journal of Artificial Organs</i> , <b>2011</b> , 34, 998-1011	1.9	23

83	Bone regeneration and stem cells. <i>Journal of Cellular and Molecular Medicine</i> , <b>2011</b> , 15, 718-46	5.6	254
82	IGF2 derived from SH-SY5Y neuroblastoma cells induces the osteoclastogenesis of human monocytic precursors. <i>Experimental Cell Research</i> , <b>2011</b> , 317, 2147-58	4.2	11
81	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> , <b>2010</b> , 16, 511-24	2.9	48
80	Biological basis for the use of autologous bone marrow stromal cells in the treatment of congenital pseudarthrosis of the tibia. <i>Bone</i> , <b>2010</b> , 46, 780-8	4.7	19
79	Bone repair and regeneration <b>2009</b> , 69-105		4
78	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> , <b>2009</b> , 27, 1493-8	3.8	29
77	Role of PLLA plasma surface modification in the interaction with human marrow stromal cells. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 3602-3611	2.9	36
76	Osteogenic properties of late adherent subpopulations of human bone marrow stromal cells. <i>Histochemistry and Cell Biology</i> , <b>2009</b> , 132, 547-57	2.4	22
75	A novel biomaterial for osteotropic drug nanocarriers: synthesis and biocompatibility evaluation of a PLGA-ALE conjugate. <i>Nanomedicine</i> , <b>2009</b> , 4, 161-75	5.6	51
74	Circulating levels of VCAM and MMP-2 may help identify patients with more aggressive prostate cancer. <i>Current Cancer Drug Targets</i> , <b>2008</b> , 8, 199-206	2.8	16
73	Sensitivity to implant materials in patients with total knee arthroplasties. <i>Biomaterials</i> , <b>2008</b> , 29, 1494-500	5.6	134
72	Paracrine inhibition of osteoblast differentiation induced by neuroblastoma cells. <i>International Journal of Cancer</i> , <b>2008</b> , 123, 1526-35	7.5	19
71	Biocompatibility of poly(D,L-lactide-co-glycolide) nanoparticles conjugated with alendronate. <i>Biomaterials</i> , <b>2008</b> , 29, 1400-11	15.6	111
70	Expression of cell adhesion receptors in human osteoblasts cultured on biofunctionalized poly-(epsilon-caprolactone) surfaces. <i>Biomaterials</i> , <b>2007</b> , 28, 3668-78	15.6	40
69	Sensitivity to implant materials in patients undergoing total hip replacement. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2006</b> , 77, 257-64	3.5	89
68	Plasma levels of receptor activator of nuclear factor-kappaB ligand and osteoprotegerin in patients with neuroblastoma. <i>International Journal of Cancer</i> , <b>2006</b> , 119, 146-51	7.5	17
67	Effects of antisense mediated inhibition of cathepsin K on human osteoclasts obtained from peripheral blood. <i>Journal of Orthopaedic Research</i> , <b>2006</b> , 24, 1699-708	3.8	9
66	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> , <b>2006</b> , 88, 1501-9	5.6	39

65	SERUM LEVELS OF OSTEOPROTEGERIN AND RECEPTOR ACTIVATOR OF NUCLEAR FACTOR- $\kappa$ B LIGAND AS MARKERS OF PERIPROSTHETIC OSTEOLYSIS. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2006</b> , 88, 1501-1509	5.6	4
64	Molecular basis of osteoclastogenesis induced by osteoblasts exposed to wear particles. <i>Biomaterials</i> , <b>2005</b> , 26, 2371-9	15.6	65
63	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> , <b>2005</b> , 87, 571-6		19
62	Evaluation of osteoblast-like cell response to Proroot MTA (mineral trioxide aggregate) cement. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2004</b> , 15, 167-73	4.5	30
61	In vitro blockade of receptor activator of nuclear factor- $\kappa$ B ligand prevents osteoclastogenesis induced by neuroblastoma cells. <i>International Journal of Cancer</i> , <b>2004</b> , 111, 829-38	7.5	44
60	The influence of alumina and ultra-high molecular weight polyethylene particles on osteoblast-osteoclast cooperation. <i>Biomaterials</i> , <b>2004</b> , 25, 4037-45	15.6	52
59	Isolation and characterization of a new cell line from a renal carcinoma bone metastasis. <i>Anticancer Research</i> , <b>2004</b> , 24, 1705-11	2.3	5
58	Osteoblast growth and function in porous poly epsilon -caprolactone matrices for bone repair: a preliminary study. <i>Biomaterials</i> , <b>2003</b> , 24, 3815-24	15.6	205
57	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> , <b>2002</b> , 63, 467-74		147
56	Effect of four acrylic bone cements on transforming growth factor-beta1 expression by osteoblast-like cells MG63. <i>Biomaterials</i> , <b>2002</b> , 23, 305-11	15.6	7
55	In vitro testing of the potential for orthopedic bone cements to cause apoptosis of osteoblast-like cells. <i>Biomaterials</i> , <b>2002</b> , 23, 617-27	15.6	59
54	Effects of bone cement extracts on the cell-mediated immune response. <i>Biomaterials</i> , <b>2002</b> , 23, 1033-41	15.6	12
53	Platelet release of transforming growth factor-beta and beta-thromboglobulin after in vitro contact with acrylic bone cements. <i>Biomaterials</i> , <b>2002</b> , 23, 1479-84	15.6	20
52	Thrombomodulin expression in endothelial cells after contact with bone cement. <i>Biomaterials</i> , <b>2002</b> , 23, 2159-65	15.6	1
51	Bone cement extracts modulate the osteoprotegerin/osteoprotegerin-ligand expression in MG63 osteoblast-like cells. <i>Biomaterials</i> , <b>2002</b> , 23, 2359-65	15.6	28
50	Nitric oxide synthase in tissues around failed hip prostheses. <i>Biomaterials</i> , <b>2002</b> , 23, 4833-8	15.6	16
49	Inflammatory Response to Metals and Ceramics <b>2002</b> , 735-791		4
48	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> , <b>2002</b> , 13, 1283-94	3.5	9

47	Association of two gene polymorphisms with osteoarthritis secondary to hip dysplasia. <i>Clinical Orthopaedics and Related Research</i> , <b>2002</b> , 108-17	2.2	28
46	Platelet activation after in vitro contact with seven acrylic bone cements. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2002</b> , 13, 17-25	3.5	9
45	Evaluation of the effect of seven acrylic bone cements on erythrocytes and plasmatic phase of coagulation. <i>Biomaterials</i> , <b>2001</b> , 22, 1321-6	15.6	7
44	Evaluation of tissue-factor production by human endothelial cells incubated with three acrylic bone cements. <i>Journal of Biomedical Materials Research Part B</i> , <b>2001</b> , 55, 131-6		5
43	Evaluation of endothelial cell integrins after in vitro contact with polyethylene terephthalate. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2001</b> , 12, 345-9	4.5	6
42	Interleukin-6 expression by cultured human endothelial cells in contact with carbon coated polyethylene terephthalate. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2001</b> , 12, 365-9	4.5	2
41	Serum concentrations of zinc and selenium in elderly people: results in healthy nonagenarians/centenarians. <i>Experimental Gerontology</i> , <b>2001</b> , 36, 327-39	4.5	104
40	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> , <b>2001</b> , 72, 86-93		5
39	Effect of CMW 1 bone cement on transforming growth factor-beta 1 expression by endothelial cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2001</b> , 12, 1011-25	3.5	1
38	Interleukin-6 expression by osteoblast-like MG63 cells challenged with four acrylic bone cements. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2001</b> , 12, 243-53	3.5	6
37	Sister chromatid exchanges and ion release in patients wearing fracture fixation devices. <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 50, 21-6		27
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> , <b>2000</b> , 50, 483-9		13
35	Apoptosis in peri-implant tissue. <i>Biomaterials</i> , <b>2000</b> , 21, 1393-8	15.6	40
34	In vitro cytokine production by mononuclear cells exposed to bone cement extracts. <i>Biomaterials</i> , <b>2000</b> , 21, 1789-95	15.6	21
33	Expression of the CD69 activation antigen on lymphocytes of patients with hip prosthesis. <i>Biomaterials</i> , <b>2000</b> , 21, 2059-65	15.6	39
32	Modulation of pro- and anti-apoptotic genes in lymphocytes exposed to bone cements. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2000</b> , 11, 633-46	3.5	13
31	Cytokines and osteolysis around total hip prostheses. <i>Cytokine</i> , <b>2000</b> , 12, 1575-9	4	92
30	Sister chromatid exchange in patients with joint prostheses. <i>Journal of Arthroplasty</i> , <b>2000</b> , 15, 772-7	4.4	12

29	Influence of polyethylene terephthalate on the release of growth factors by human endothelial cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>1999</b> , 10, 891-900	3.5	6
28	Cytokine release in mononuclear cells of patients with Co-Cr hip prosthesis. <i>Biomaterials</i> , <b>1999</b> , 20, 1079-86	3.6	95
27	Established cell lines and primary cultures in testing medical devices in vitro. <i>Toxicology in Vitro</i> , <b>1999</b> , 13, 801-10	3.6	21
26	X-ray diffraction of bone at the interface with hydroxyapatite-coated versus uncoated metal implants. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1998</b> , 9, 109-15	4.5	13
25	Cell death induced by metal ions: necrosis or apoptosis?. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1998</b> , 9, 31-7	4.5	63
24	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> , <b>1998</b> , 39, 549-53		8
23	Fluorescent microplate assay for respiratory burst of PMNs challenged in vitro with orthopedic metals. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 41, 455-60		41
22	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> , <b>1998</b> , 42, 485-90		35
21	Effects of chromium extract on cytokine release by mononuclear cells. <i>Biomaterials</i> , <b>1998</b> , 19, 283-91	15.6	28
20	Adhesive protein expression on human endothelial cells after in vitro contact with woven Dacron. <i>Biomaterials</i> , <b>1998</b> , 19, 93-8	15.6	27
19	Bone-resorbing cytokines in serum of patients with aseptic loosening of hip prostheses. <i>Journal of Bone and Joint Surgery: British Volume</i> , <b>1998</b> , 80, 912-7		56
18	In vitro complement activation after contact with pyrolytic carbon-coated and uncoated polyethylene terephthalate. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1997</b> , 8, 771-4	4.5	9
17	High-performance liquid chromatography assay of N,N-dimethyl-p-toluidine released from bone cements: evidence for toxicity. <i>Biomaterials</i> , <b>1997</b> , 18, 243-6	15.6	35
16	Expression of adhesion molecules on endothelial cells after contact with knitted Dacron. <i>Biomaterials</i> , <b>1997</b> , 18, 489-94	15.6	43
15	Assessment of metal extract toxicity on human lymphocytes cultured in vitro. <i>Journal of Biomedical Materials Research Part B</i> , <b>1996</b> , 31, 183-91		52
14	Cytokine production and adhesive protein expression by endothelial cells after contact with polyethylene terephthalate. <i>Biomaterials</i> , <b>1996</b> , 17, 2071-6	15.6	23
13	In vitro assessment of phagocytosis of bovine collagen by human monocytes/macrophages using a spectrophotometric method. <i>Biomaterials</i> , <b>1996</b> , 17, 1703-7	15.6	14
12	Application of a combination of neutral red and amido black staining for rapid, reliable cytotoxicity testing of biomaterials. <i>Biomaterials</i> , <b>1996</b> , 17, 1259-1264	15.6	75

11	In vitro effects of bone cements on the cell cycle of osteoblast-like cells. <i>Biomaterials</i> , <b>1995</b> , 16, 1187-92	15.6	39
10	Platelet and coagulation factor variations induced in vitro by polyethylene terephthalate (Dacron) coated with pyrolytic carbon. <i>Biomaterials</i> , <b>1995</b> , 16, 973-6	15.6	33
9	Adhesive protein expression on endothelial cells after contact in vitro with polyethylene terephthalate coated with pyrolytic carbon. <i>Biomaterials</i> , <b>1995</b> , 16, 1223-7	15.6	50
8	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> , <b>1995</b> , 79, 359-66		27
7	Silicone breast implants: the role of immune system on capsular contracture formation. <i>Journal of Biomedical Materials Research Part B</i> , <b>1995</b> , 29, 197-202		68
6	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> , <b>1995</b> , 29, 583-90		11
5	In vitro assessment of lymphocytes response following re-exposure to silicone. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1994</b> , 5, 640-643	4.5	3
4	X-ray diffraction analysis of bone-cement interface in failed hip arthroplasties. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1994</b> , 5, 644-646	4.5	
3	Cell culture methods for testing biocompatibility. <i>Clinical Materials</i> , <b>1994</b> , 15, 173-90		128
2	Increased osteoclast activity is associated with aggressiveness of osteosarcoma <b>1992</b> , 33, 1231		15
1	Establishment and characterization of a primitive neuroectodermal tumor of bone continuous cell line (LAP-35). <i>International Journal of Cell Cloning</i> , <b>1990</b> , 8, 409-24		24