

Barbara D Boyan

List of Publications by Year in descending order

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Version: 2024-02-01

277
papers

18,566
citations

13865

67
h-index

16650

123
g-index

278
all docs

278
docs citations

278
times ranked

15817
citing authors

#	ARTICLE	IF	CITATIONS
1	miR-122 and the WNT/β-catenin pathway inhibit effects of both interleukin-1β and tumor necrosis factor-α in articular chondrocytes in vitro. <i>Journal of Cellular Biochemistry</i> , 2022, , .	2.6	6
2	Human Bone Marrow Stromal Cell Exosomes Ameliorate Periodontitis. <i>Journal of Dental Research</i> , 2022, 101, 1110-1118.	5.2	10
3	The Biological Basis for Surface-dependent Regulation of Osteogenesis and Implant Osseointegration. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2022, 30, e894-e898.	2.5	5
4	Hydrophilic implants generated using a low-cost dielectric barrier discharge plasma device at the time of placement exhibit increased osseointegration in an animal pre-clinical study: An effect that is sex-dependent. <i>Dental Materials</i> , 2022, 38, 632-645.	3.5	3
5	A Review of Biomimetic Topographies and Their Role in Promoting Bone Formation and Osseointegration: Implications for Clinical Use. <i>Biomimetics</i> , 2022, 7, 46.	3.3	15
6	The Role of Matrix-Bound Extracellular Vesicles in the Regulation of Endochondral Bone Formation. <i>Cells</i> , 2022, 11, 1619.	4.1	14
7	Regulation of inflammatory and catabolic responses to IL-1β in rat articular chondrocytes by microRNAs miR-122 and miR-451. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 113-123.	1.3	15
8	The Relative Expression of ERα Isoforms ERα66 and ERα36 Controls the Cellular Response to 24R,25-Dihydroxyvitamin D3 in Breast Cancer. <i>Molecular Cancer Research</i> , 2021, 19, 99-111.	3.4	5
9	Benchtop plasma treatment of titanium surfaces enhances cell response. <i>Dental Materials</i> , 2021, 37, 690-700.	3.5	12
10	Specific MicroRNAs Found in Extracellular Matrix Vesicles Regulate Proliferation and Differentiation in Growth Plate Chondrocytes. <i>Calcified Tissue International</i> , 2021, 109, 455-468.	3.1	13
11	Advanced Glycation End Products Are Retained in Decellularized Muscle Matrix Derived from Aged Skeletal Muscle. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8832.	4.1	8
12	Differential Effects of Neurectomy and Botox-induced Muscle Paralysis on Bone Phenotype and Titanium Implant Osseointegration. <i>Bone</i> , 2021, 153, 116145.	2.9	10
13	Sex-specific effects of 17β-estradiol and dihydrotestosterone (DHT) on growth plate chondrocytes are dependent on both ERα and ERβ and require palmitoylation to translocate the receptors to the plasma membrane. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 159028.	2.4	3
14	RNU (Foxn1RNU-Nude) Rats Demonstrate an Improved Ability to Regenerate Muscle in a Volumetric Muscle Injury Compared to Sprague Dawley Rats. <i>Bioengineering</i> , 2021, 8, 12.	3.5	8
15	Hot isostatic pressure treatment of 3D printed Ti6Al4V alters surface modifications and cellular response. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1262-1273.	3.4	5
16	Acellular mineralized allogenic block bone graft does not remodel during the 10 weeks following concurrent implant placement in a rabbit femoral model. <i>Clinical Oral Implants Research</i> , 2020, 31, 37-48.	4.5	7
17	Production of osteogenic and angiogenic factors by microencapsulated adipose stem cells varies with culture conditions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1857-1867.	3.4	7
18	Growth factors produced by bone marrow stromal cells on nanoroughened titanium-aluminum-vanadium surfaces program distal MSCs into osteoblasts via BMP2 signaling. <i>Journal of Orthopaedic Research</i> , 2020, 39, 1908-1920.	2.3	9

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19	Loss of Estrogen Receptors is Associated with Increased Tumor Aggression in Laryngeal Squamous Cell Carcinoma. <i>Scientific Reports</i> , 2020, 10, 4227.	3.3	13
20	Regulation of mesenchymal stem cell differentiation on microstructured titanium surfaces by semaphorin 3A. <i>Bone</i> , 2020, 134, 115260.	2.9	27
21	In vivo evaluation of an electrospun and 3D printed cellular delivery device for dermal wound healing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2560-2570.	3.4	12
22	Titanium implant surface properties enhance osseointegration in ovariectomy induced osteoporotic rats without pharmacologic intervention. <i>Clinical Oral Implants Research</i> , 2020, 31, 374-387.	4.5	21
23	Bisphosphonates inhibit surface-mediated osteogenesis. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1774-1786.	4.0	15
24	Cell and Tissue Response to Polyethylene Terephthalate Mesh Containing Bone Allograft in Vitro and in Vivo. <i>International Journal of Spine Surgery</i> , 2020, 14, 7135.	1.5	3
25	Critical Evaluation of Biomechanical Principles and Radiographic Indicators for Fusion Assessment in a Novel Conformable Porous Mesh Implant. <i>International Journal of Spine Surgery</i> , 2020, 14, S108-S114.	1.5	0
26	Advances in Porous Scaffold Design for Bone and Cartilage Tissue Engineering and Regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2019, 25, 14-29.	4.8	166
27	24R,25-dihydroxyvitamin D3 modulates tumorigenicity in breast cancer in an estrogen receptor-dependent manner. <i>Steroids</i> , 2019, 150, 108447.	1.8	8
28	Osteoblasts grown on microroughened titanium surfaces regulate angiogenic growth factor production through specific integrin receptors. <i>Acta Biomaterialia</i> , 2019, 97, 578-586.	8.3	27
29	Estrogen signaling and estrogen receptors as prognostic indicators in laryngeal cancer. <i>Steroids</i> , 2019, 152, 108498.	1.8	13
30	24R,25-Dihydroxyvitamin D3 regulates breast cancer cells in vitro and in vivo. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1498-1512.	2.4	14
31	Integrin- β 7 signaling regulates connexin 43, M-cadherin, and myoblast fusion. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 316, C876-C887.	4.6	25
32	Ibandronate Treatment Before and After Implant Insertion Impairs Osseointegration in Aged Rats with Ovariectomy Induced Osteoporosis. <i>JBMR Plus</i> , 2019, 3, e10184.	2.7	14
33	VEGF-A regulates angiogenesis during osseointegration of Ti implants via paracrine/autocrine regulation of osteoblast response to hierarchical microstructure of the surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 423-433.	4.0	25
34	Effect of 17 β -estradiol on estrogen receptor negative breast cancer cells in an osteolytic mouse model. <i>Steroids</i> , 2019, 142, 28-33.	1.8	5
35	Regulation of extracellular matrix vesicles via rapid responses to steroid hormones during endochondral bone formation. <i>Steroids</i> , 2019, 142, 43-47.	1.8	11
36	Estradiol receptor profile and estrogen responsiveness in laryngeal cancer and clinical outcomes. <i>Steroids</i> , 2019, 142, 34-42.	1.8	9

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37	Decellularized Muscle Supports New Muscle Fibers and Improves Function Following Volumetric Injury. <i>Tissue Engineering - Part A</i> , 2018, 24, 1228-1241.	3.1	33
38	Regulation of osteoclasts by osteoblast lineage cells depends on titanium implant surface properties. <i>Acta Biomaterialia</i> , 2018, 68, 296-307.	8.3	68
39	MicroRNA Contents in Matrix Vesicles Produced by Growth Plate Chondrocytes are Cell Maturation Dependent. <i>Scientific Reports</i> , 2018, 8, 3609.	3.3	27
40	Imaging analysis of the interface between osteoblasts and microrough surfaces of laser-sintered titanium alloy constructs. <i>Journal of Microscopy</i> , 2018, 270, 41-52.	1.8	2
41	Surface modification of bulk titanium substrates for biomedical applications via low-temperature microwave hydrothermal oxidation. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 782-796.	4.0	16
42	Microencapsulated rabbit adipose stem cells initiate tissue regeneration in a rabbit ear defect model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1742-1753.	2.7	8
43	Platelet-rich plasma and alignment enhance myogenin via ERK mitogen activated protein kinase signaling. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 055009.	3.3	4
44	Human osteoblasts exhibit sexual dimorphism in their response to estrogen on microstructured titanium surfaces. <i>Biology of Sex Differences</i> , 2018, 9, 30.	4.1	20
45	Cartilage. , 2018, , 405-417.		3
46	Role of Wnt11 during Osteogenic Differentiation of Human Mesenchymal Stem Cells on Microstructured Titanium Surfaces. <i>Scientific Reports</i> , 2018, 8, 8588.	3.3	24
47	Effects of Tunable Keratin Hydrogel Erosion on Recombinant Human Bone Morphogenetic Protein 2 Release, Bioactivity, and Bone Induction. <i>Tissue Engineering - Part A</i> , 2018, 24, 1616-1630.	3.1	11
48	Comparable responses of osteoblast lineage cells to microstructured hydrophilic titanium-zirconium and microstructured hydrophilic titanium. <i>Clinical Oral Implants Research</i> , 2017, 28, e51-e59.	4.5	34
49	Dental implant surface chemistry and energy alter macrophage activation <i>in vitro</i> . <i>Clinical Oral Implants Research</i> , 2017, 28, 414-423.	4.5	70
50	Laser Sintered Porous Ti-6Al-4V Implants Stimulate Vertical Bone Growth. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2025-2035.	2.5	37
51	Performance of laser sintered Ti-6Al-4V implants with bone-inspired porosity and micro/nanoscale surface roughness in the rabbit femur. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 025021.	3.3	44
52	Inhibition of angiogenesis impairs bone healing in an <i>in vivo</i> murine rapid resynostosis model. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2742-2749.	4.0	15
53	Galectin-1 promotes an M2 macrophage response to polydioxanone scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2562-2571.	4.0	40
54	Bone Morphogenetic Protein 2 Alters Osteogenesis and Anti-Inflammatory Profiles of Mesenchymal Stem Cells Induced by Microtextured Titanium <i>In Vitro</i> . <i>Tissue Engineering - Part A</i> , 2017, 23, 1132-1141.	3.1	24

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55	<sup />Roughness and Hydrophilicity as Osteogenic Biomimetic Surface Properties. Tissue Engineering - Part A, 2017, 23, 1479-1489.	3.1	107
56	7.17 Bone Tissue Grafting and Tissue Engineering Concepts â†. , 2017, , 298-313.		3
57	Microencapsulation of Stem Cells for Therapy. Methods in Molecular Biology, 2017, 1479, 251-259.	0.9	14
58	Effects of lowâ€frequency ultrasound treatment of titanium surface roughness on osteoblast phenotype and maturation. Clinical Oral Implants Research, 2017, 28, e151-e158.	4.5	10
59	7.22 The Effect of Substrate Microtopography on Osteointegration of Titanium Implants â†. , 2017, , 429-443.		0
60	Substrate Stiffness Controls Osteoblastic and Chondrocytic Differentiation of Mesenchymal Stem Cells without Exogenous Stimuli. PLoS ONE, 2017, 12, e0170312.	2.5	157
61	Vitamin D and Cartilage â†. , 2017, , .		0
62	Mineralization of three-dimensional osteoblast cultures is enhanced by the interaction of 1<i>Î±</i>,25-dihydroxyvitamin D3 and BMP2 via two specific vitamin D receptors. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 40-51.	2.7	26
63	24R,25-Dihydroxyvitamin D3 Protects against Articular Cartilage Damage following Anterior Cruciate Ligament Transection in Male Rats. PLoS ONE, 2016, 11, e0161782.	2.5	30
64	Novel hydrophilic nanostructured microtexture on direct metal laser sintered Ti-6Al-4V surfaces enhances osteoblast response<i>in vitro</i>and osseointegration in a rabbit model. Journal of Biomedical Materials Research - Part A, 2016, 104, 2086-2098.	4.0	59
65	Enhanced Osteoblast Response to Porosity and Resolution of Additively Manufactured Ti-6Al-4V Constructs with Trabeculae-Inspired Porosity. 3D Printing and Additive Manufacturing, 2016, 3, 10-21.	2.9	26
66	Differential spatial regulation of BMP molecules is associated with single-suture craniosynostosis. Journal of Neurosurgery: Pediatrics, 2016, 18, 83-91.	1.3	11
67	Implant Surface Design Regulates Mesenchymal Stem Cell Differentiation and Maturation. Advances in Dental Research, 2016, 28, 10-17.	3.6	64
68	Selective enrichment of microRNAs in extracellular matrix vesicles produced by growth plate chondrocytes. Bone, 2016, 88, 47-55.	2.9	48
69	Role of integrin Î±7Î²1 signaling in myoblast differentiation on aligned polydioxanone scaffolds. Acta Biomaterialia, 2016, 39, 44-54.	8.3	24
70	Change in surface roughness by dynamic shape-memory acrylate networks enhances osteoblast differentiation. Biomaterials, 2016, 110, 34-44.	11.4	36
71	Laser-Sintered Constructs with Bio-inspired Porosity and Surface Micro/Nano-Roughness Enhance Mesenchymal Stem Cell Differentiation and Matrix Mineralization In Vitro. Calcified Tissue International, 2016, 99, 625-637.	3.1	29
72	Hydrogels derived from cartilage matrices promote induction of human mesenchymal stem cell chondrogenic differentiation. Acta Biomaterialia, 2016, 43, 139-149.	8.3	34

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73	Osteogenic response of human MSCs and osteoblasts to hydrophilic and hydrophobic nanostructured titanium implant surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 3137-3148.	4.0	71
74	Characterization of osteoarthritic human knees indicates potential sex differences. <i>Biology of Sex Differences</i> , 2016, 7, 27.	4.1	30
75	Craniosynostosis and Resynostosis. <i>Journal of Dental Research</i> , 2016, 95, 846-852.	5.2	12
76	Rapid steroid hormone actions via membrane receptors. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2289-2298.	4.1	80
77	Development of a cell delivery system using alginate microbeads for tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3515-3525.	5.8	19
78	Titanium surface characteristics, including topography and wettability, alter macrophage activation. <i>Acta Biomaterialia</i> , 2016, 31, 425-434.	8.3	471
79	Role of integrin $\alpha 2 \beta 1$ in mediating osteoblastic differentiation on three-dimensional titanium scaffolds with submicron-scale texture. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1907-1918.	4.0	26
80	Spag17 Deficiency Results in Skeletal Malformations and Bone Abnormalities. <i>PLoS ONE</i> , 2015, 10, e0125936.	2.5	30
81	Regulation of Osteoblast Differentiation by Acid-Etched and/or Grit-Blasted Titanium Substrate Topography Is Enhanced by $1,25(\text{OH})_2\text{D}_3$ in a Sex-Dependent Manner. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	13
82	Implant Materials Generate Different Peri-implant Inflammatory Factors. <i>Spine</i> , 2015, 40, 399-404.	2.0	127
83	Role of $\alpha 2 \beta 1$ integrins in mediating cell shape on microtextured titanium surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 564-573.	4.0	38
84	Role of integrin subunits in mesenchymal stem cell differentiation and osteoblast maturation on graphitic carbon-coated microstructured surfaces. <i>Biomaterials</i> , 2015, 51, 69-79.	11.4	86
85	A review of $1,25(\text{OH})_2\text{D}_3$ dependent Pdia3 receptor complex components in Wnt5a non-canonical pathway signaling. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 152, 84-88.	2.5	29
86	Osteogenic Embryoid Body-Derived Material Induces Bone Formation In Vivo. <i>Scientific Reports</i> , 2015, 5, 9960.	3.3	11
87	Coordinated regulation of mesenchymal stem cell differentiation on microstructured titanium surfaces by endogenous bone morphogenetic proteins. <i>Bone</i> , 2015, 73, 208-216.	2.9	34
88	Membrane-mediated actions of $1,25$ -dihydroxy vitamin D ₃ : A review of the roles of phospholipase A2 activating protein and Ca ²⁺ /calmodulin-dependent protein kinase II. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 147, 81-84.	2.5	51
89	Membrane actions of $1,25(\text{OH})_2\text{D}_3$ are mediated by Ca ²⁺ /calmodulin-dependent protein kinase II in bone and cartilage cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 145, 65-74.	2.5	28
90	Osteoblast maturation on microtextured titanium involves paracrine regulation of bone morphogenetic protein signaling. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1721-1731.	4.0	20

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91	Accuracy of computer-aided guided implantation in a human cadaver model. <i>Clinical Oral Implants Research</i> , 2015, 26, 1143-1149.	4.5	18
92	Characterization of Distinct Classes of Differential Gene Expression in Osteoblast Cultures from Non-Syndromic Craniosynostosis Bone. <i>Journal of Genomics</i> , 2014, 2, 121-130.	0.9	9
93	Additively manufactured 3D porous Ti-6Al-4V constructs mimic trabecular bone structure and regulate osteoblast proliferation, differentiation and local factor production in a porosity and surface roughness dependent manner. <i>Biofabrication</i> , 2014, 6, 045007.	7.1	197
94	Superposition of nanostructures on microrough titanium-aluminum-vanadium alloy surfaces results in an altered integrin expression profile in osteoblasts. <i>Connective Tissue Research</i> , 2014, 55, 164-168.	2.3	20
95	Osteoblast response to nanocrystalline calcium hydroxyapatite depends on carbonate content. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3237-3242.	4.0	27
96	Osteoblast Lineage Cells Can Discriminate Microscale Topographic Features on Titanium-Aluminum-Vanadium Surfaces. <i>Annals of Biomedical Engineering</i> , 2014, 42, 2551-2561.	2.5	67
97	Rapid $1\alpha,25(\text{OH})_2\text{D}_3$ membrane-mediated activation of Ca^{2+} /calmodulin-dependent protein kinase II in growth plate chondrocytes requires Pdia3, PLAA and caveolae. <i>Connective Tissue Research</i> , 2014, 55, 125-128.	2.3	12
98	Role of ER α 36 in membrane-associated signaling by estrogen. <i>Steroids</i> , 2014, 81, 74-80.	1.8	42
99	New insights on membrane mediated effects of $1\alpha,25$ -dihydroxy vitamin D3 signaling in the musculoskeletal system. <i>Steroids</i> , 2014, 81, 81-87.	1.8	30
100	17Beta-Estradiol Promotes Aggressive Laryngeal Cancer Through Membrane-Associated Estrogen Receptor-Alpha 36. <i>Hormones and Cancer</i> , 2014, 5, 22-32.	4.9	25
101	A review on the wettability of dental implant surfaces I: Theoretical and experimental aspects. <i>Acta Biomaterialia</i> , 2014, 10, 2894-2906.	8.3	356
102	Implant osseointegration and the role of microroughness and nanostructures: Lessons for spine implants. <i>Acta Biomaterialia</i> , 2014, 10, 3363-3371.	8.3	344
103	Estrogen receptor-alpha 36 mediates the anti-apoptotic effect of estradiol in triple negative breast cancer cells via a membrane-associated mechanism. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2796-2806.	4.1	34
104	Rapidly polymerizing injectable click hydrogel therapy to delay bone growth in a murine re-synostosis model. <i>Biomaterials</i> , 2014, 35, 9698-9708.	11.4	45
105	Mechanical stiffness as an improved single-cell indicator of osteoblastic human mesenchymal stem cell differentiation. <i>Journal of Biomechanics</i> , 2014, 47, 2197-2204.	2.1	61
106	A review on the wettability of dental implant surfaces II: Biological and clinical aspects. <i>Acta Biomaterialia</i> , 2014, 10, 2907-2918.	8.3	607
107	Signaling components of the $1\alpha,25(\text{OH})_2\text{D}_3$ -dependent Pdia3 receptor complex are required for Wnt5a calcium-dependent signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2365-2375.	4.1	30
108	Impaired Bone Formation in Pdia3 Deficient Mice. <i>PLoS ONE</i> , 2014, 9, e112708.	2.5	19

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109	Adipose Stem Cell Microbeads as Production Sources for Chondrogenic Growth Factors. <i>Journal of Stem Cells and Regenerative Medicine</i> , 2014, 10, 38-48.	2.2	7
110	Addressing the gaps: sex differences in osteoarthritis of the knee. <i>Biology of Sex Differences</i> , 2013, 4, 4.	4.1	44
111	Controlled release of rat adipose-derived stem cells from alginate microbeads. <i>Biomaterials</i> , 2013, 34, 8172-8184.	11.4	63
112	Plasma membrane Pdia3 and VDR interact to elicit rapid responses to $1\alpha,25(\text{OH})_2\text{D}_3$. <i>Cellular Signalling</i> , 2013, 25, 2362-2373.	3.6	83
113	Chaperone Properties of Pdia3 Participate in Rapid Membrane Actions of $1\alpha,25$ -Dihydroxyvitamin D ₃ . <i>Molecular Endocrinology</i> , 2013, 27, 1065-1077.	3.7	18
114	Sex-specific response of rat costochondral cartilage growth plate chondrocytes to 17β -estradiol involves differential regulation of plasma membrane associated estrogen receptors. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 1165-1172.	4.1	18
115	Tailoring Adipose Stem Cell Trophic Factor Production with Differentiation Medium Components to Regenerate Chondral Defects. <i>Tissue Engineering - Part A</i> , 2013, 19, 1451-1464.	3.1	27
116	Electrical polarization of titanium surfaces for the enhancement of osteoblast differentiation. <i>Bioelectromagnetics</i> , 2013, 34, 599-612.	1.6	28
117	Rough titanium alloys regulate osteoblast production of angiogenic factors. <i>Spine Journal</i> , 2013, 13, 1563-1570.	1.3	112
118	Rapid re-synostosis following suturectomy in pediatric mice is age and location dependent. <i>Bone</i> , 2013, 53, 284-293.	2.9	7
119	Microstructured titanium regulates interleukin production by osteoblasts, an effect modulated by exogenous BMP-2. <i>Acta Biomaterialia</i> , 2013, 9, 5821-5829.	8.3	35
120	The roles of titanium surface micro/nanotopography and wettability on the differential response of human osteoblast lineage cells. <i>Acta Biomaterialia</i> , 2013, 9, 6268-6277.	8.3	252
121	Biphasic Fusion of the Murine Posterior Frontal Suture. <i>Plastic and Reconstructive Surgery</i> , 2013, 131, 727-740.	1.4	6
122	Amelogenin Peptide Extract Increases Differentiation and Angiogenic and Local Factor Production and Inhibits Apoptosis in Human Osteoblasts. <i>ISRN Biomaterials</i> , 2013, 2013, 1-11.	0.7	2
123	Osteogenic Differentiation of Stem Cells Alters Vitamin D Receptor Expression. <i>Stem Cells and Development</i> , 2012, 21, 1726-1735.	2.1	24
124	Osteoblasts exhibit a more differentiated phenotype and increased bone morphogenetic protein production on titanium alloy substrates than on poly-ether-ether-ketone. <i>Spine Journal</i> , 2012, 12, 265-272.	1.3	168
125	Mechanism of Pdia3-dependent $1\alpha,25$ -dihydroxy vitamin D ₃ signaling in musculoskeletal cells. <i>Steroids</i> , 2012, 77, 892-896.	1.8	40
126	Rapid membrane responses to dihydrotestosterone are sex dependent in growth plate chondrocytes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012, 132, 15-23.	2.5	15

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127	Phospholipase A2 activating protein is required for 1 α ,25-dihydroxyvitamin D3 dependent rapid activation of protein kinase C via Pdia3. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012, 132, 48-56.	2.5	34
128	The responses to surface wettability gradients induced by chitosan nanofilms on microtextured titanium mediated by specific integrin receptors. <i>Biomaterials</i> , 2012, 33, 7386-7393.	11.4	99
129	Sex Differences in Osteoarthritis of the Knee. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2012, 20, 668-669.	2.5	10
130	BMP2 induces osteoblast apoptosis in a maturation state and noggin α dependent manner. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3236-3245.	2.6	44
131	Differentiation of human mesenchymal stem cell spheroids under microgravity conditions. <i>Cell Regeneration</i> , 2012, 1, 1:2.	2.6	27
132	Differential responses of osteoblast lineage cells to nanotopographically-modified, microroughened titanium α aluminum α vanadium alloy surfaces. <i>Biomaterials</i> , 2012, 33, 8986-8994.	11.4	141
133	Adipose stem cells can secrete angiogenic factors that inhibit hyaline cartilage regeneration. <i>Stem Cell Research and Therapy</i> , 2012, 3, 35.	5.5	51
134	Effects of resveratrol on enrichment of adipose-derived stem cells and their differentiation to osteoblasts in two-and three-dimensional cultures. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, s34-s46.	2.7	22
135	Osteoblast maturation and new bone formation in response to titanium implant surface features are reduced with age. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 1773-1783.	2.8	71
136	Membrane Estrogen Signaling Enhances Tumorigenesis and Metastatic Potential of Breast Cancer Cells via Estrogen Receptor- β (ER β). <i>Journal of Biological Chemistry</i> , 2012, 287, 7169-7181.	3.4	89
137	Algorithm to Assess Cranial Suture Fusion with Varying and Discontinuous Mineral Density. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1597-1609.	2.5	6
138	Effects of structural properties of electrospun TiO2 nanofiber meshes on their osteogenic potential. <i>Acta Biomaterialia</i> , 2012, 8, 878-885.	8.3	59
139	Effect of cleaning and sterilization on titanium implant surface properties and cellular response. <i>Acta Biomaterialia</i> , 2012, 8, 1966-1975.	8.3	169
140	Use of polyelectrolyte thin films to modulate Osteoblast response to microstructured titanium surfaces. <i>Biomaterials</i> , 2012, 33, 5267-5277.	11.4	33
141	Resveratrol effect on osteogenic differentiation of rat and human adipose derived stem cells in a 3-D culture environment. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 11, 112-122.	3.1	39
142	Enhancement of Surface Wettability via the Modification of Microtextured Titanium Implant Surfaces with Polyelectrolytes. <i>Langmuir</i> , 2011, 27, 5976-5985.	3.5	40
143	Coordinated tether formation in anatomically distinct mice growth centers is dependent on a functional vitamin D receptor and is tightly linked to three-dimensional tissue morphology. <i>Bone</i> , 2011, 49, 419-427.	2.9	12
144	Electrical Implications of Corrosion for Osseointegration of Titanium Implants. <i>Journal of Dental Research</i> , 2011, 90, 1389-1397.	5.2	102

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145	Hyaluronic acid stimulates neovascularization during the regeneration of bone marrow after ablation. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 575-583.	4.0	25
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