Michael Hadjiargyrou

List of Publications by Year
in descending order

94 papers	5,992 citations	126708 33 h-index	71532 76 g-index

94 all docs	94 docs citations	94 times ranked	7900 citing authors

#	Article	IF	Citations
1	Development of a nanostructured DNA delivery scaffold via electrospinning of PLGA and PLAâ€“PEG block copolymers. Journal of Controlled Release, 2003, 89, 341-353.	4.8	766
2	Incorporation and controlled release of a hydrophilic antibiotic using poly(lactide-co-glycolide)-based electrospun nanofibrous scaffolds. Journal of Controlled Release, 2004, 98, 47-56.	4.8	707
3	Control of degradation rate and hydrophilicity in electrospun non-woven poly(d,l-lactide) nanofiber scaffolds for biomedical applications. Biomaterials, 2003, 24, 4977-4985.	5.7	524
4	Highly cited research articles in Journal of Controlled Release: Commentaries and perspectives by authors. Journal of Controlled Release, 2014, 190, 29-74.	4.8	394
5	Gold nanoparticles cellular toxicity and recovery: Effect of size, concentration and exposure time. Nanotoxicology, 2010, 4, 120-137.	1.6	330
6	The Use of Low-Intensity Ultrasound to Accelerate the Healing of Fractures. Journal of Bone and Joint Surgery - Series A, 2001, 83, 259-270.	1.4	302
7	Transcriptional Profiling of Bone Regeneration. Journal of Biological Chemistry, 2002, 277, 30177-30182.	1.6	230
8	Enhancement of Fracture Healing by Low Intensity Ultrasound. Clinical Orthopaedics and Related Research, 1998, 355S, S216-S229.	0.7	194
9	Activation of the transcription factor HIF-1 and its target genes, VEGF, HO-1, iNOS, during fracture repair. Bone, 2004, 34, 680-688.	1.4	191
10	CD9 plays a role in Schwann cell migration in vitro. Journal of Neuroscience, 1995, 15, 584-595.	1.7	119
11	Wnt signaling activation during bone regeneration and the role of Dishevelled in chondrocyte proliferation and differentiation. Bone, 2006, 39, 5-16.	1.4	108
12	The Intertwining of Transposable Elements and Non-Coding RNAs. International Journal of Molecular Sciences, 2013, 14, 13307-13328.	1.8	107
13	The Convergence of Fracture Repair and Stem Cells: Interplay of Genes, Aging, Environmental Factors and Disease. Journal of Bone and Mineral Research, 2014, 29, 2307-2322.	3.1	106
14	In vitro non-viral gene delivery with nanofibrous scaffolds. Nucleic Acids Research, 2005, 33, e170-e170.	6.5	102
15	Temporal Expression of the Chondrogenic and Angiogenic Growth Factor CYR61 During Fracture Repair. Journal of Bone and Mineral Research, 2000, 15, 1014-1023.	3.1	100
16	An anti-CD9 monoclonal antibody promotes adhesion and induces proliferation of Schwann cells in vitro. Journal of Neuroscience, 1995, 15, 574-583.	1.7	82
17	CD9, a major platelet cell surface glycoprotein, is a ROCA antigen and is expressed in the nervous system. Journal of Neuroscience, 1995, 15, 562-573.	1.7	76
18	Enhanced composite electrospun nanofiber scaffolds for use in drug delivery. Expert Opinion on Drug Delivery, 2008, 5, 1093-1106.	2.4	71

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19	Functionalization of poly(L-lactide) nanofibrous scaffolds with bioactive collagen molecules. Journal of Biomedical Materials Research - Part A, 2007, 83A, 1117-1127.	2.1	62
20	Periostinâ€likeâ€factor in osteogenesis. Journal of Cellular Physiology, 2009, 218, 584-592.	2.0	56
21	Mechanical modulation of molecular signals which regulate anabolic and catabolic activity in bone tissue. Journal of Cellular Biochemistry, 2005, 94, 982-994.	1.2	54
22	Enhanced Bone Regeneration Associated With Decreased Apoptosis in Mice With Partial HIF-1Î± Deficiency. Journal of Bone and Mineral Research, 2007, 22, 366-374.	3.1	54
23	Gold nanoparticles cellular toxicity and recovery: Adipose Derived Stromal cells. Nanotoxicology, 2014, 8, 189-201.	1.6	51
24	The role of moderate static magnetic fields on biomineralization of osteoblasts on sulfonated polystyrene films. Biomaterials, 2011, 32, 7831-7838.	5.7	50
25	Cdk2 Silencing via a DNA/PCL Electrospun Scaffold Suppresses Proliferation and Increases Death of Breast Cancer Cells. PLoS ONE, 2012, 7, e52356.	1.1	48
26	Association of the Tetraspan Protein CD9 with Integrins on the Surface of Sâ€16 Schwann Cells. Journal of Neurochemistry, 1996, 67, 2505-2513.	2.1	44
27	Electrospun Nanofibrous Scaffolds for Biomedical Applications. Journal of Biomedical Nanotechnology, 2005, 1, 115-132.	0.5	44
28	Molecular cloning and characterization of Mustang, a novel nuclear protein expressed during skeletal development and regeneration. FASEB Journal, 2004, 18, 52-61.	0.2	43
29	Reactivation of Hox gene expression during bone regeneration. Journal of Orthopaedic Research, 2005, 23, 882-890.	1.2	42
30	A pharmacokinetic model of oral methylphenidate in the rat and effects on behavior. Pharmacology Biochemistry and Behavior, 2015, 131, 143-153.	1.3	42
31	An Antibody to the Tetraspan Membrane Protein CD9 Promotes Neurite Formation in a Partially Î±3Î²1 Integrin-Dependent Manner. Journal of Neuroscience, 1997, 17, 2756-2765.	1.7	38
32	Silencing of Mustn1 inhibits myogenic fusion and differentiation. American Journal of Physiology - Cell Physiology, 2010, 298, C1100-C1108.	2.1	38
33	Characterizing DNA Condensation and Conformational Changes in Organic Solvents. PLoS ONE, 2010, 5, e13308.	1.1	37
34	Chronic exposure to methylphenidate impairs appendicular bone quality in young rats. Bone, 2012, 50, 1214-1222.	1.4	36
35	The E11 osteoblastic lineage marker is differentially expressed during fracture healing. Bone, 2001, 29, 149-154.	1.4	32
36	The Therapeutic Potential of MicroRNAs as Orthobiologics for Skeletal Fractures. Journal of Bone and Mineral Research, 2019, 34, 797-809.	3.1	31

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37	Temporal and spatial expression of osteoactivin during fracture repair. Journal of Cellular Biochemistry, 2010, 111, 295-309.	1.2	30
38	Differential Expression of Neuroleukin in Osseous Tissues and Its Involvement in Mineralization During Osteoblast Differentiation. Journal of Bone and Mineral Research, 2001, 16, 1994-2004.	3.1	29
39	Synthesis and characterization of biocompatible hydrogel using Pluronics-based block copolymers. Polymer, 2013, 54, 2088-2095.	1.8	29
40	Delivery of rhBMP-2 Plasmid DNA Complexes via a PLLA/Collagen Electrospun Scaffold Induces Ectopic Bone Formation. Journal of Biomedical Nanotechnology, 2016, 12, 1285-1296.	0.5	28
41	Chronic oral methylphenidate treatment reversibly increases striatal dopamine transporter and dopamine type 1 receptor binding in rats. Journal of Neural Transmission, 2017, 124, 655-667.	1.4	27
42	Increased expression of matrix metalloproteinase-1 in osteocytes precedes bone resorption as stimulated by disuse: Evidence for autoregulation of the cell's mechanical environment?. Journal of Orthopaedic Research, 1999, 17, 354-361.	1.2	25
43	A novel <scp>GFP</scp> reporter mouse reveals <scp>M</scp>ustn1 expression in adult regenerating skeletal muscle, activated satellite cells and differentiating myoblasts. Acta Physiologica, 2013, 208, 180-190.	1.8	25
44	Methylphenidate regulation of osteoclasts in a dose- and sex-dependent manner adversely affects skeletal mechanical integrity. Scientific Reports, 2018, 8, 1515.	1.6	23
45	The Effects of UV Emission from Compact Fluorescent Light Exposure on Human Dermal Fibroblasts and Keratinocytes In Vitro. Photochemistry and Photobiology, 2012, 88, 1497-1506.	1.3	22
46	Sex Differences in the Physiological and Behavioral Effects of Chronic Oral Methylphenidate Treatment in Rats. Frontiers in Behavioral Neuroscience, 2017, 11, 53.	1.0	22
47	Cloning of a Novel cDNA Expressed during the Early Stages of Fracture Healing. Biochemical and Biophysical Research Communications, 1998, 249, 879-884.	1.0	21
48	Mustn1 is expressed during chondrogenesis and is necessary for chondrocyte proliferation and differentiation in vitro. Bone, 2009, 45, 330-338.	1.4	21
49	Identification and characterization of the Mustang promoter: Regulation by AP-1 during myogenic differentiation. Bone, 2006, 39, 815-824.	1.4	20
50	Differential Phosphorylation of Paxillin in Response to Surface-Bound Serum Proteins during Early Osteoblast Adhesion. Biochemical and Biophysical Research Communications, 2001, 285, 355-363.	1.0	19
51	Induction of Cell Migration <I>In Vitro</I> by an Electrospun PDGF-BB/PLGA/PEG-PLA Nanofibrous Scaffold. Journal of Biomedical Nanotechnology, 2011, 7, 823-829.	0.5	19
52	Identification of the microRNA transcriptome during the early phases of mammalian fracture repair. Bone, 2016, 87, 78-88.	1.4	19
53	Chronic oral methylphenidate treatment increases microglial activation in rats. Journal of Neural Transmission, 2018, 125, 1867-1875.	1.4	19
54	Recovery from behavior and developmental effects of chronic oral methylphenidate following an abstinence period. Pharmacology Biochemistry and Behavior, 2018, 172, 22-32.	1.3	19

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55	Mustn1: A Developmentally Regulated Pan-Musculoskeletal Cell Marker and Regulatory Gene. International Journal of Molecular Sciences, 2018, 19, 206.	1.8	19
56	Heat shock proteins in retinal neurogenesis: identification of the PM1 antigen as the chick Hsc70 and its expression in comparison to that of other chaperones. European Journal of Neuroscience, 1998, 10, 3237-3245.	1.2	18
57	Expression of integrin Î±2Î²1 in axons and receptive endings of neurons in rat, hairy skin. Neuroscience Letters, 2000, 293, 13-16.	1.0	18
58	Proline-rich transcript of the brain (prtb) is a serum-responsive gene in osteoblasts and upregulated during adhesion. Journal of Cellular Biochemistry, 2002, 84, 301-308.	1.2	15
59	Reversal of the Detrimental Effects of Simulated MicrogravityÂon Human Osteoblasts by Modified Low IntensityÂPulsed Ultrasound. Ultrasound in Medicine and Biology, 2013, 39, 804-812.	0.7	15
60	Cell-based cytotoxicity assays for engineered nanomaterials safety screening: exposure of adipose derived stromal cells to titanium dioxide nanoparticles. Journal of Nanobiotechnology, 2017, 15, 50.	4.2	15
61	Weekday-only chronic oral methylphenidate self-administration in male rats: Reversibility of the behavioral and physiological effects. Behavioural Brain Research, 2019, 356, 189-196.	1.2	15
62	Integrin Î±2Î²1 affects mechano-transduction in slowly and rapidly adapting cutaneous mechanoreceptors in rat hairy skin. Neuroscience, 2004, 129, 447-459.	1.1	14
63	The Effect of Exogenous Zinc Concentration on the Responsiveness of MC3T3-E1 Pre-Osteoblasts to Surface Microtopography: Part II (Differentiation). Materials, 2014, 7, 1097-1112.	1.3	14
64	A new pathway for developingin vitronanostructured non-viral gene carriers. Journal of Physics Condensed Matter, 2006, 18, S2513-S2525.	0.7	11
65	Mustn1 is essential for craniofacial chondrogenesis during Xenopus development. Gene Expression Patterns, 2012, 12, 145-153.	0.3	10
66	Cloning of zebrafish Mustn1 orthologs and their expression during early development. Gene, 2016, 593, 235-241.	1.0	10
67	MicroRNAs and fracture healing: Pre-clinical studies. Bone, 2021, 143, 115758.	1.4	10
68	Gene expression patterns in bone after 4 days of hind-limb unloading in two inbred strains of mice. Aviation, Space, and Environmental Medicine, 2005, 76, 530-5.	0.6	9
69	Brief and extended abstinence from chronic oral methylphenidate treatment produces reversible behavioral and physiological effects. Developmental Psychobiology, 2020, 62, 170-180.	0.9	8
70	The Effect of Exogenous Zinc Concentration on the Responsiveness of MC3T3-E1 Pre-Osteoblasts to Surface Microtopography: Part I (Migration). Materials, 2013, 6, 5517-5532.	1.3	7
71	Ketamine intervention limits pathogen expansion in vitro. Pathogens and Disease, 2018, 76, .	0.8	7
72	Chronic oral methylphenidate treatment in adolescent rats promotes dose-dependent effects on NMDA receptor binding. Life Sciences, 2021, 264, 118708.	2.0	7

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73	Identification and Characterization of a Synthetic Osteogenic Peptide. Calcified Tissue International, 2015, 97, 611-623.	1.5	6
74	Synthesis and characterization of poly(ethylene oxide)/polylactide/polylysine triâ€arm star copolymers for gene delivery. Journal of Polymer Science Part A, 2018, 56, 635-644.	2.5	6
75	Chronic treatment and abstinence from methylphenidate exposure dose-dependently changes glucose metabolism in the rat brain. Brain Research, 2022, 1780, 147799.	1.1	6
76	Abstinence from Chronic Methylphenidate Exposure Modifies Cannabinoid Receptor 1 Levels in the Brain in a Dose-dependent Manner. Current Pharmaceutical Design, 2022, 28, 331-338.	0.9	5
77	The Lipogenic Gene Spot 14 is Activated in Bone by Disuse yet Remains Unaffected by a Mechanical Signal Anabolic to the Skeleton. Calcified Tissue International, 2008, 82, 148-154.	1.5	4
78	Transcription of rDNA is essential for satellite association. Cytogenetic and Genome Research, 1994, 66, 63-67.	0.6	3
79	A transfected human ribosomal RIM A gene is present in the nucleolus of human cells. Cytogenetic and Genome Research, 1994, 66, 58-62.	0.6	2
80	Statistical Approaches in the Analysis of Gene Expression Data Derived from Bone Regeneration Specific cDNA Microarrays. Journal of Biopharmaceutical Statistics, 2004, 14, 607-628.	0.4	2
81	Scaffolds with encapsulated DNA for non-viral gene delivery. Journal of Non-Crystalline Solids, 2006, 352, 4394-4399.	1.5	2
82	Differential Bacterial Colonization and Biofilm Formation on Punctal Occluders. Materials, 2019, 12, 274.	1.3	2
83	Abstinence Following Intermittent Methylphenidate Exposure Doseâ€Ðependently Modifies Brain Glucose Metabolism in the Rat Brain. Synapse, 0, , .	0.6	2
84	Incorporation of DNA into Electrospun Nanofibrous Scaffolds: Fundamental Characterization Studies and Gene Delivery. , 0, , .		1
85	6. Reflections on the emergence of new thematic research: Development of electrospun nanostructured DNA delivery scaffolds. Journal of Controlled Release, 2014, 190, 41-44.	4.8	1
86	Development of a cell-delivery vehicle derived from electrospun non-woven nanostructured membranes. , 0, , .		0
87	Characterization of an electrospun poly(lactide-co-glycolide) and block copolymer-based, nanostructured matrix for DNA delivery. , 0, , .		0
88	The Second Creation: Dolly and the Age of Biological Control. By IanÂ Wilmut, , KeithÂ Campbell, and , ColinÂ Tudge. Cambridge (Massachusetts): Harvard University Press. $16.95 (paper). xvii + 333 p + 8 pl; ill.; index. ISBN: 0â€“674â€“00586â€“4. [First published in 2000 by Headline Book Publishing, United Kingdom; first published in the United States by Farrar, Straus and Giroux.] 2000.. Quarterly Review of Biology, 2002, 77, 202-203.	0.0	0
89	Characterization of Mustn1^{PRO}-GFPtpz transgenic mice. , 2007, , .		0
90	The characterization of Mustang in chondrogenesis in vitro. , 2007, , .		0

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91	For Teachers, All the Classroom's a Stage. Science, 2009, 323, 1009-1009.	6.0	0
92	What Do COVID-19 Vaccines Tell Us About Nucleic Acid Delivery In Vivo?. Nucleic Acid Therapeutics, 2021, 31, 321-323.	2.0	0
93	Identification of a novel gene isolated from a fracture callus. , 0, , .		0
94	Increased Expression of Matrix Metalloproteinase-1 in Osteocytes Precedes Bone Resorption as Stimulated by Disuse: Evidence for Autoregulation of the Cell's Mechanical Environment?. Journal of Bone and Joint Surgery - Series A, 1999, 81, 54.	1.4	0