

Fackson Mwale

List of Publications by Year in descending order

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77
papers

3,470
citations

109137

35
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143772

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77
all docs

77
docs citations

77
times ranked

3760
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms and clinical implications of intervertebral disc calcification. <i>Nature Reviews Rheumatology</i> , 2022, 18, 352-362.	3.5	33
2	Tungsten Increases Sex-Specific Osteoclast Differentiation in Murine Bone. <i>Toxicological Sciences</i> , 2021, 179, 135-146.	1.4	3
3	Absence of VEGFR β /Flt β signaling pathway in mice results in insensitivity to discogenic low back pain in an established disc injury mouse model. <i>Journal of Cellular Physiology</i> , 2020, 235, 5305-5317.	2.0	15
4	Patient-Specific Functional Analysis: The Key to the Next Revolution Towards the Treatment of Hip and Knee Osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1754-1759.	1.2	7
5	Injectable Chitosan Hydrogels with Enhanced Mechanical Properties for Nucleus Pulposus Regeneration. <i>Tissue Engineering - Part A</i> , 2019, 25, 303-313.	1.6	40
6	Animal models for studying the etiology and treatment of low back pain. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1305-1312.	1.2	41
7	Development of an in vivo mouse model of discogenic low back pain. <i>Journal of Cellular Physiology</i> , 2018, 233, 6589-6602.	2.0	29
8	Link-N: The missing link towards intervertebral disc repair is species-specific. <i>PLoS ONE</i> , 2017, 12, e0187831.	1.1	15
9	Development of a Large Animal Long-Term Intervertebral Disc Organ Culture Model That Includes the Bony Vertebrae for <i>Ex Vivo</i> Studies. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 636-643.	1.1	20
10	Short Link N Stimulates Intervertebral Disc Repair in a Novel Long-Term Organ Culture Model that Includes the Bony Vertebrae. <i>Tissue Engineering - Part A</i> , 2016, 22, 1252-1257.	1.6	9
11	Tungsten Promotes Sex-Specific Adipogenesis in the Bone by Altering Differentiation of Bone Marrow-Resident Mesenchymal Stromal Cells. <i>Toxicological Sciences</i> , 2016, 150, 333-346.	1.4	17
12	A Well-Controlled Nucleus Pulposus Tissue Culture System with Injection Port for Evaluating Regenerative Therapies. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1798-1807.	1.3	6
13	Gene Expression Profiling Identifies Interferon Signalling Molecules and IGFBP3 in Human Degenerative Annulus Fibrosus. <i>Scientific Reports</i> , 2015, 5, 15662.	1.6	53
14	Naproxen Induces Type X Collagen Expression in Human Bone-Marrow-Derived Mesenchymal Stem Cells Through the Upregulation of 5-Lipoxygenase. <i>Tissue Engineering - Part A</i> , 2015, 21, 234-245.	1.6	9
15	The Effects of Naproxen on Chondrogenesis of Human Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2015, 21, 2136-2146.	1.6	6
16	Link N as a Therapeutic Agent to Treat Pain Associated with Intervertebral Disc Degeneration. <i>Global Spine Journal</i> , 2015, 5, s-0035-1554298-s-0035-1554298.	1.2	0
17	Link N is cleaved by human annulus fibrosus cells generating a fragment with retained biological activity. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1189-1197.	1.2	7
18	Link N and Mesenchymal Stem Cells Can Induce Regeneration of the Early Degenerate Intervertebral Disc. <i>Tissue Engineering - Part A</i> , 2014, 20, 2942-2949.	1.6	45

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19	Syndecan 4 Signaling and Intervertebral Disc Degeneration. American Journal of Pathology, 2014, 184, 2371-2373.	1.9	2
20	Collagen and Other Proteins of the Nucleus Pulposus, Annulus Fibrosus, and Cartilage End Plates. , 2014, , 79-92.		2
21	Effect of Acetaminophen and Nonsteroidal Anti-Inflammatory Drugs on Gene Expression of Mesenchymal Stem Cells. Tissue Engineering - Part A, 2013, 19, 1039-1046.	1.6	22
22	Analysis of quantitative magnetic resonance imaging and biomechanical parameters on human discs with different grades of degeneration. Journal of Magnetic Resonance Imaging, 2013, 38, 1402-1414.	1.9	52
23	Molecular Therapy for Disk Degeneration and Pain. Global Spine Journal, 2013, 3, 185-192.	1.2	12
24	Fabrication and Characterization of Organic Thin Films for Applications in Tissue Engineering: Emphasis on Cell-Surface Interactions. Materials Research Society Symposia Proceedings, 2012, 1469, 43.	0.1	3
25	Effect of in utero exposure to diethylstilbestrol on lumbar and femoral bone, articular cartilage, and the intervertebral disc in male and female adult mice progeny with and without swimming exercise. Arthritis Research and Therapy, 2012, 14, R17.	1.6	28
26	Adhesion of Uâ€937 Monocytes on Different Amineâ€functionalised Polymer Surfaces. Plasma Processes and Polymers, 2012, 9, 243-252.	1.6	20
27	Amine-Rich Organic Thin Films for Cell Culture: Possible Electrostatic Effects in Cellâ€Surface Interactions. Japanese Journal of Applied Physics, 2012, 51, 11PJ04.	0.8	8
28	Effect of Synthetic Link N Peptide on the Expression of Type I and Type II Collagens in Human Intervertebral Disc Cells. Tissue Engineering - Part A, 2011, 17, 899-904.	1.6	28
29	The efficacy of Link N as a mediator of repair in a rabbit model of intervertebral disc degeneration. Arthritis Research and Therapy, 2011, 13, R120.	1.6	71
30	Amine-Rich Cell-Culture Surfaces for Research in Orthopedic Medicine. Plasma Medicine, 2011, 1, 115-133.	0.2	6
31	Effect of Oxygen Levels on Proteoglycan Synthesis by Intervertebral Disc Cells. Spine, 2011, 36, E131-E138.	1.0	76
32	The Constitutive Expression of Type X Collagen in Mesenchymal Stem Cells from Osteoarthritis Patients Is Reproduced in a Rabbit Model of Osteoarthritis. Journal of Tissue Engineering, 2011, 2011, 587547.	2.3	10
33	Effect of nitrogen-rich cell culture surfaces on type X collagen expression by bovine growth plate chondrocytes. BioMedical Engineering OnLine, 2011, 10, 4.	1.3	5
34	Calcification in human intervertebral disc degeneration and scoliosis. Journal of Orthopaedic Research, 2011, 29, 1888-1895.	1.2	82
35	Titaniaâ€hydroxyapatite nanocomposite coatings support human mesenchymal stem cells osteogenic differentiation. Journal of Biomedical Materials Research - Part A, 2011, 98A, 576-588.	2.1	45
36	Stem Cells, Nitrogen-Rich Plasma-Polymerized Culture Surfaces, and Type X Collagen Suppression. Tissue Engineering - Part A, 2011, 17, 2551-2560.	1.6	9

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37	Abnormal vascular endothelial growth factor expression in mesenchymal stem cells from both osteonecrotic and osteoarthritic hips. Bulletin of the NYU Hospital for Joint Diseases, 2011, 69 Suppl 1, S56-61.	0.7	18
38	Effect of chromium and cobalt ions on the expression of antioxidant enzymes in human U937 macrophage-like cells. Journal of Biomedical Materials Research - Part A, 2010, 94A, 419-425.	2.1	6
39	Investigation of the binding of Cr(III) complexes to bovine and human serum proteins: A proteomic approach. Journal of Biomedical Materials Research - Part A, 2010, 94A, 214-222.	2.1	36
40	Novel insights into the mechanism of decreased expression of type X collagen in human mesenchymal stem cells from patients with osteoarthritis cultured on nitrogen-rich plasma polymers: Implication of cyclooxygenase-1. Journal of Biomedical Materials Research - Part A, 2010, 94A, 744-750.	2.1	10
41	Effect of Parathyroid Hormone on Type X and Type II Collagen Expression in Mesenchymal Stem Cells from Osteoarthritic Patients. Tissue Engineering - Part A, 2010, 16, 3449-3455.	1.6	46
42	Adhesion of Human U937 Monocytes to Nitrogen-Rich Organic Thin Films: Novel Insights into the Mechanism of Cellular Adhesion. Macromolecular Bioscience, 2009, 9, 911-921.	2.1	39
43	The molecular structure of complexes formed by chromium or cobalt ions in simulated physiological fluids. Biomaterials, 2009, 30, 460-467.	5.7	12
44	Quantitative MRI as a diagnostic tool of intervertebral disc matrix composition and integrity. European Spine Journal, 2008, 17, 432-440.	1.0	99
45	Evaluation of quantitative magnetic resonance imaging, biochemical and mechanical properties of trypsin-treated intervertebral discs under physiological compression loading. Journal of Magnetic Resonance Imaging, 2008, 27, 563-573.	1.9	43
46	Cartilage Matrix Resorption in Skeletogenesis. Novartis Foundation Symposium, 2008, 232, 158-170.	1.2	22
47	The Potential of N-Rich Plasma-Polymerized Ethylene (PPE:N) Films for Regulating the Phenotype of the Nucleus Pulposus. The Open Orthopaedics Journal, 2008, 2, 137-144.	0.1	6
48	The effect of novel nitrogen-rich plasma polymer coatings on the phenotypic profile of notochordal cells. BioMedical Engineering OnLine, 2007, 6, 33.	1.3	11
49	Nitrogen-rich coatings for promoting healing around stent-grafts after endovascular aneurysm repair. Biomaterials, 2007, 28, 1209-1217.	5.7	45
50	Quantitative Magnetic Resonance Imaging of Enzymatically Induced Degradation of the Nucleus Pulposus of Intervertebral Discs. Spine, 2006, 31, 1547-1554.	1.0	49
51	The potential of chitosan-based gels containing intervertebral disc cells for nucleus pulposus supplementation. Biomaterials, 2006, 27, 388-396.	5.7	234
52	Effect of cobalt and chromium ions on human MG-63 osteoblasts in vitro: Morphology, cytotoxicity, and oxidative stress. Biomaterials, 2006, 27, 3351-3360.	5.7	148
53	The effect of glow discharge plasma surface modification of polymers on the osteogenic differentiation of committed human mesenchymal stem cells. Biomaterials, 2006, 27, 2258-2264.	5.7	91
54	Collagen and proteoglycan turnover in focally damaged human ankle cartilage: Evidence for a generalized response and active matrix remodeling across the entire joint surface. Arthritis and Rheumatism, 2006, 54, 244-252.	6.7	30

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55	Cobalt and chromium ions induce nitration of proteins in human U937 macrophages in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 599-605.	2.1	25
56	Limitations of using aggrecan and type X collagen as markers of chondrogenesis in mesenchymal stem cell differentiation. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1791-1798.	1.2	149
57	Suppression of Genes Related to Hypertrophy and Osteogenesis in Committed Human Mesenchymal Stem Cells Cultured on Novel Nitrogen-Rich Plasma Polymer Coatings. <i>Tissue Engineering</i> , 2006, 12, 2639-2647.	4.9	94
58	Suppression of Genes Related to Hypertrophy and Osteogenesis in Committed Human Mesenchymal Stem Cells Cultured on Novel Nitrogen-Rich Plasma Polymer Coatings. <i>Tissue Engineering</i> , 2006, .	4.9	0
59	Induction of protein oxidation by cobalt and chromium ions in human U937 macrophages. <i>Biomaterials</i> , 2005, 26, 4416-4422.	5.7	70
60	Effect of cobalt and chromium ions on MMP-1, TIMP-1, and TNF- α gene expression in human U937 macrophages: A role for tyrosine kinases. <i>Biomaterials</i> , 2005, 26, 5587-5593.	5.7	38
61	Adhesion of human U937 macrophages to phosphorylcholine-coated surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72A, 1-9.	3.0	23
62	Selective inhibition of type X collagen expression in human mesenchymal stem cell differentiation on polymer substrates surface-modified by glow discharge plasma. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 216-223.	2.1	69
63	Atmospheric Pressure Deposition of Micropatterned Nitrogen-Rich Plasma-Polymer Films for Tissue Engineering. <i>Plasma Processes and Polymers</i> , 2005, 2, 263-270.	1.6	150
64	Biological Evaluation of Chitosan Salts Cross-Linked to Genipin as a Cell Scaffold for Disk Tissue Engineering. <i>Tissue Engineering</i> , 2005, 11, 130-140.	4.9	111
65	Apparent diffusion coefficient of intervertebral discs related to matrix composition and integrity. <i>Magnetic Resonance Imaging</i> , 2004, 22, 963-972.	1.0	101
66	Effect of cobalt and chromium ions on bcl-2, bax, caspase-3, and caspase-8 expression in human U937 macrophages. <i>Biomaterials</i> , 2004, 25, 2013-2018.	5.7	63
67	Polymer surface micropatterning by plasma and VUV-photochemical modification for controlled cell culture. <i>Applied Surface Science</i> , 2004, 235, 395-405.	3.1	77
68	Induction of apoptosis and necrosis by metal ions in vitro. <i>Journal of Arthroplasty</i> , 2004, 19, 84-87.	1.5	106
69	Value and Limitations of Using the Bovine Tail as a Model for the Human Lumbar Spine. <i>Spine</i> , 2004, 29, 2793-2799.	1.0	115
70	A synthetic peptide of link protein stimulates the biosynthesis of collagens II, IX and proteoglycan by cells of the intervertebral disc. <i>Journal of Cellular Biochemistry</i> , 2003, 88, 1202-1213.	1.2	63
71	The Assembly and Remodeling of the Extracellular Matrix in the Growth Plate in Relationship to Mineral Deposition and Cellular Hypertrophy: An In Situ Study of Collagens II and IX and Proteoglycan. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 275-283.	3.1	87
72	Proteolysis Involving Matrix Metalloproteinase 13 (Collagenase-3) Is Required for Chondrocyte Differentiation That Is Associated with Matrix Mineralization. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 639-651.	3.1	104

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73	Early degradation of type IX and type II collagen with the onset of experimental inflammatory arthritis. <i>Arthritis and Rheumatism</i> , 2001, 44, 120-127.	6.7	76
74	Selective assembly and remodelling of collagens II and IX associated with expression of the chondrocyte hypertrophic phenotype. <i>Developmental Dynamics</i> , 2000, 218, 648-662.	0.8	56
75	Endochondral bone formation and development in the axial and appendicular skeleton. , 2000, , 3-17.		15
76	Effects of Calcitonin and Parathyroid Hormone on Calcification of Primary Cultures of Chicken Growth Plate Chondrocytes. <i>Journal of Bone and Mineral Research</i> , 1997, 12, 356-366.	3.1	23
77	Morphological and biochemical characterization of mineralizing primary cultures of avian growth plate chondrocytes: Evidence for cellular processing of Ca ²⁺ and Pi prior to matrix mineralization. <i>Journal of Cellular Biochemistry</i> , 1995, 57, 218-237.	1.2	74